

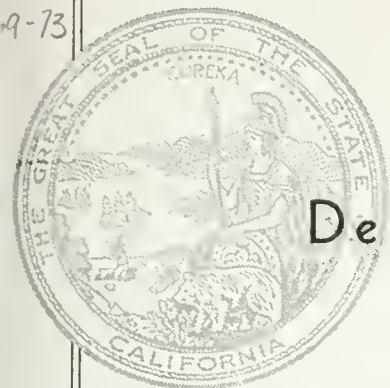


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1. The first part of the paper is devoted to a general discussion of the problem of the existence of solutions of the system of equations (1) and (2) under the assumption that the functions $f_i(x)$ and $g_i(x)$ are continuous and satisfy certain conditions. It is shown that under these conditions the system has a unique solution in the class of continuous functions.



9-73



STATE OF CALIFORNIA

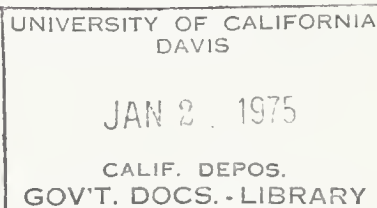
The Resources Agency

Department of Water Resources

BULLETIN No. 69-73

CALIFORNIA HIGH WATER

1972-1973



December 1974

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

JOHN R. TEERINK
Director
Department of Water Resources

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FOREWORD

The weather patterns of the 1972-73 flood season were characterized by a southerly displacement of the storm track which produced above-normal rainfall through the midcoastal and Central Valley areas of the State. This precipitation produced no significant flooding by any of the State's major streams; however, the combination of abundant and high-intensity rainfall caused local floods and mudslides so large and numerous that ten counties and one city were declared disaster areas during the season.

Bulletin No. 69-73, the 11th in an annual series, covers the period from October 1, 1972 through September 30, 1973. It describes precipitation, runoff, flooding and the general weather patterns that precede and coincide with storm periods. The bulletin also includes tabulations of precipitation comparisons and peak streamflows and stages, hydrographs of streamflow and reservoir operations, and weir overflow graphs.

Information for this bulletin was supplied by the Department of Water Resources, the National Weather Service, the U. S. Army Corps of Engineers, the U. S. Bureau of Reclamation, and many other agencies, both public and private. The assistance of the cooperating agencies is greatly appreciated.



John R. Teerink, Director
Department of Water Resources
The Resources Agency
State of California
November 22, 1974

STATE OF CALIFORNIA
Ronald Reagan, Governor

THE RESOURCES AGENCY
Norman B. Livermore, Jr.
Secretary for Resources

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Overflow from a minor stream in the community of Vacaville in
in Solano County created scenes like this in January 1973.
(Photo by Vacaville Reporter)

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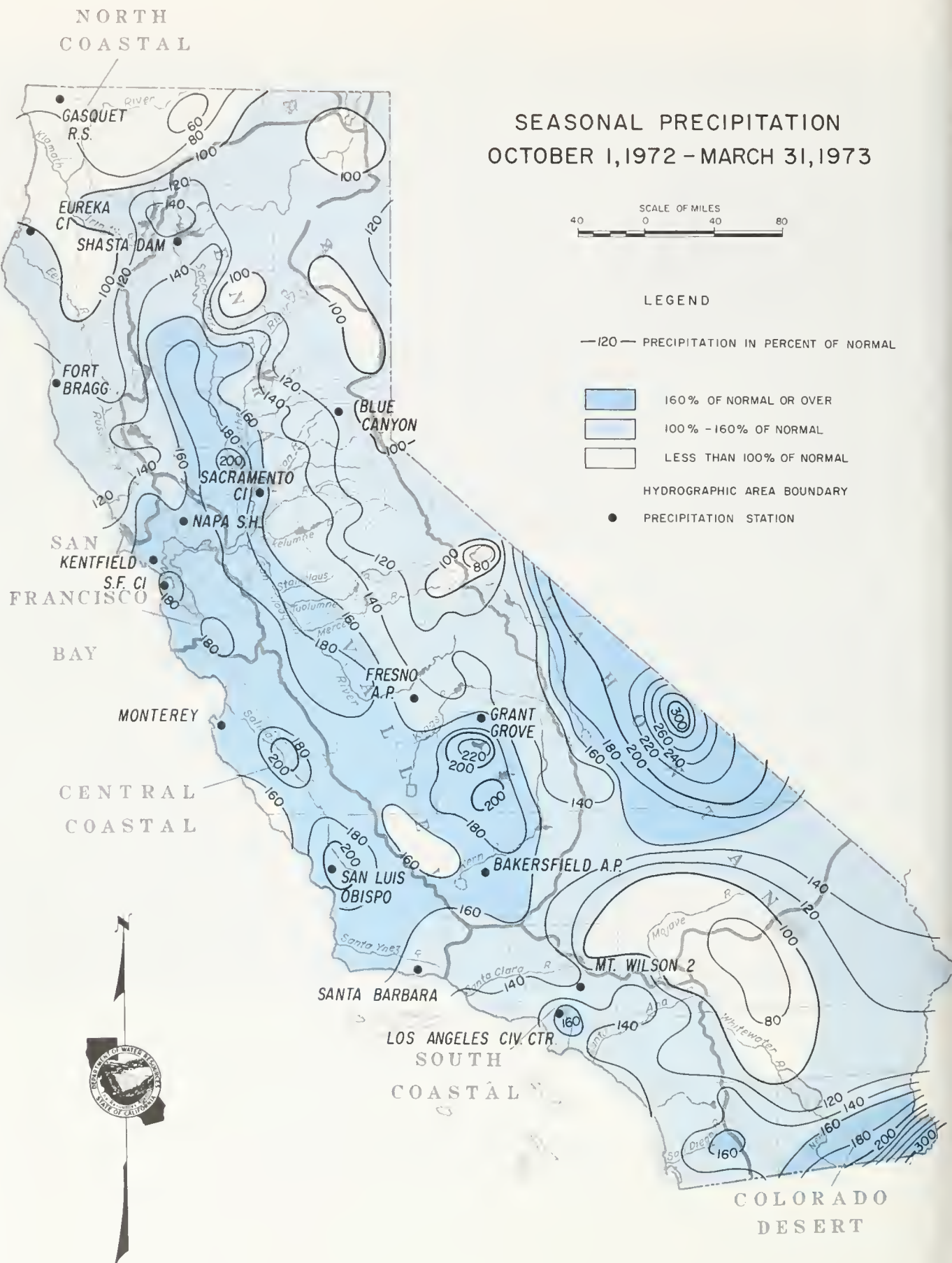
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STORMS OF THE 1972-73 SEASON

The winter of 1972-73 was characterized by a west-to-east storm track that was displaced farther south than usual, and that produced seemingly incessant rain, mud slides, and much local flooding from overtaxed storm drains and minor streams. Damages from local flooding, mud slides, and high tides were sufficiently large to cause declarations of disaster areas in ten counties and one city (Figure 1).

With the exception of December, each month of the normally wet period (October through March) produced above-normal rainfall throughout most of the State. In the midsection of the State, it was common for stations to report monthly catchments of from 200 to 400

percent of normal. Although many of the storms produced intense rainfall, the durations were relatively short, allowing the major streams to conduct the runoff without serious flooding.

Because of the more southern track of the storms, the 1972-73 winter was the first season of record in which all of the five major north coastal streams - the Smith, Klamath, Trinity, Eel, and Van Duzen Rivers - failed to reach flood stage. These, usually the first in the State to exceed flood stage, were unusually quiet this season. Only the Russian River, of all the major streams in the State, produced significant flood stages--but no major damage was reported.

TABLE 1: PRECIPITATION AMOUNTS AT SELECTED STATIONS
DURING 1972-73 SEASON

Station	Elevation in Feet	Total Precipitation-Selected Periods (In Inches)					Maximum One-Day Amounts	
		October	November	January	February	Oct. 1-Mar. 30	Amount	Day
<u>North Coastal Area</u>								
Casquet RS	384	2.74	8.51	14.62	missing	--	--	--
Eureka CI	43	1.97	5.41	6.47	3.85	30.42	1.61	12/03/72
Fort Bragg	80	3.18	8.02	10.80	7.87	43.25	1.99	11/07/72
<u>Sacramento Valley Area</u>								
Shasta Dam	1076	4.52	13.36	18.96	13.88	65.71	7.74	1/16/73
Blue Canyon	5280	4.74	11.68	19.37	12.03	64.70	3.71	1/11/73
Sacramento CI	19	1.70	5.08	7.29	6.47	25.68	2.11	2/27/73
<u>San Joaquin Valley Area</u>								
Grant Grove	6600	1.55	8.09	13.37	11.85	49.66	4.38	1/17/73
Fresno AP	328	0.22	3.50	1.91	3.69	13.56	1.11	2/11/73
Bakersfield AP	475	0.54	1.55	2.07	0.49	7.80	0.87	3/20/73
<u>San Francisco Bay Area</u>								
Napa State Hospital	60	3.34	6.95	11.37	5.61	33.76	1.80	1/16/73
Kentfield	128	8.54	12.41	19.60	12.19	65.95	3.30	1/11/73
San Francisco CI	52	5.41	6.40	9.38	6.32	33.67	2.14	11/13/72
<u>Central Coastal Area</u>								
Monterey	345	2.46	5.95	6.05	5.88	26.94	1.19	2/11/73
San Luis Obispo	315	2.72	6.79	13.83	9.67	39.95	4.35	1/19/73
Santa Barbara	9	0.49	6.35	6.15	8.28	24.28	2.75	1/18/73
<u>South Coastal Area</u>								
Mt. Wilson 2	5709	0.59	5.47	5.99	22.63	47.64	9.79	2/11/73
Los Angeles Civ. Cent.	270	0.29	3.26	4.39	7.89	20.89	2.74	1/16/73



Debris- and rock-laden mud flows through Big Sur claimed the village garage in November 1972. (Photo by the Monterey Peninsula Herald)



On February 11, 1973, a massive mudslide at Haffler Canyon near Big Sur severed State Highway 1, caused the death of a highway equipment operator, and severely damaged a two-story commercial structure. (Photo by the Monterey Peninsula Herald)

October 1972: The pattern of local flooding began in October when an upper level low-pressure center having cold temperatures at its center (a "cold low") formed off the central California coast and persisted for nine days, October 8-17. This stationary low brought a series of storms that passed across most of the State but centered chiefly in the San Francisco Bay and Central Coastal Hydrographic areas. Rainfall totals from the Bay area storms ranged from nearly 3 inches near San Jose to more than 8 inches at Kentfield in Marin County. Half Moon Bay received over 6.5 inches, and San Francisco received 5.4 inches, which was six times greater than the normal amount for the entire month.

In the urban areas of California's mid-section, from the coast to the Central Valley, these storms produced extensive local flooding from swollen streams and overtaxed drains. Street flooding from direct runoff reached such proportions that water surging down a San Francisco street swept a man from a curb to his death.

The major damage areas from these October storms were in South San Francisco and in the Big Sur area in Monterey County. In South San Francisco, Colma Creek went over its banks and flooded much of the low-lying residential, commercial, and industrial sections of the city. In the Big Sur area, these October storms produced the first of a series of damaging mud flows from once-wooded slopes whose vegetative cover had been burned in August. On the basis of this damage, the Governor declared Monterey County a disaster area.

Later in October, Southern California received heavy thunderstorms which produced some flooding in San Bernardino, Riverside, and Los Angeles Counties.

November 1972: The concentration of rainfall through the central part of the State continued in November as the belt of strongest westerlies (jet stream) was displaced south of their usual path. A series of at least nine fronts was carried eastward in the zonal flow over California, bringing heavy amounts of rainfall across the State. Totals for the month ranged from 200 to 400 percent of normal over most of the State, but diminished to slightly less than normal in the extreme northern portions: San Francisco and Sacramento each received over 5 inches of rain (330% normal), San Luis Obispo received 6.8 inches (400% normal), and Big Sur State Park was drenched with 11 inches in three days.

Colma Creek in South San Francisco again overtopped its banks; while mud-laden runoff in the Big Sur area extended the damage begun in October. Mudslides, fallen trees, and flooded homes and roads occurred in many other locations in Northern California; damage was especially heavy in the urban coastal hills. Runoff to the Sacramento River system was sufficient to cause the first overflow of the season to the Sutter Bypass at Tisdale Weir.

December 1972: The southerly storm pattern established in October and continued in November was broken in December when a very deep trough formed over the western states, with a ridge upstream of this trough extending into Alaska. The resulting flow around the Alaskan ridge into the trough brought a strong meridional flow of frigid arctic air masses into the western United States, including California. The State experienced record low temperatures from December 5 through December 16, resulting in heavy agricultural losses throughout California. Cold, fierce storms left snow at such unlikely low elevations as Sacramento, Modesto, and the San Francisco Bay area.



"Popped" manhole in the town of Mill Valley in Marin County on January 18, 1973.
(Photo by the San Rafael Independent Journal)



Three to four feet of water on Francisco Boulevard in San Rafael, Marin County,
on January 18, 1973. (Photo by the San Rafael Independent Journal)

Total precipitation for the month was generally below normal and no significant flood or slide damage was reported.

January 1973: Weather patterns over the eastern Pacific in January again returned to the prevailing zonal flow of October and November, with the jet stream displaced south of its normal track. During the 14-day period, January 8-21, this flow pattern carried a series of five weather fronts over California. As in October and November, the heaviest precipitation again occurred in the central portion of the State. A strong cold front moved into and through the southern part from January 16-19.

This series of central California storms produced precipitation totals of over 20 inches at some stations in the Russian, Napa, and American River Basins. Cazadero in the Russian River drainage basin reported 22.9 inches of rainfall during the month, with 5.6 inches in 24 hours, and 10.1 inches in 48 hours; Skaggs Springs in the Napa River drainage basin reported 25.4 inches during the month, with 5.5 inches in 24 hours, and a 4-day total of 12 inches; Strawberry in the American River drainage basin reported 27.2 inches during the month, with 5.8 inches in 24 hours and a three-day total of 10.8 inches. Other stations across the center of the State received comparable or slightly lesser amounts of rainfall averaging over 200 percent of normal for the month.

Within a period of eight days (January 11-18), the Russian River exceeded flood stage twice. Each one required evacuation and rescue of residents along the low-lying resort areas in the vicinity of Guerneville. Approximately 70 homes were flooded to some degree and resort shops and businesses suffered losses, but no major damage was reported.

The heavy January rains also produced a multitude of local flooding from

overtaxed storm drains and from countless swollen small streams in the Central Valley from Tulare County in the south to Colusa County in the north and along the coast from San Luis Obispo County in the south to Sonoma and Mendocino Counties in the north. Major damage occurred in Marin and San Luis Obispo Counties, and reoccurred in South San Francisco and Big Sur.

In Marin County extensive damage to public and private property was caused by rock and mud slides which destroyed or severely damaged homes, autos, and streets. Flooding from runoff was further aggravated by a series of high tides which coincided with the heavy rains from January 12-17. Damage was estimated at \$2 million, and the county was declared a disaster area by the Governor.

In San Luis Obispo County, the cold storm of January 16-19 produced 10 inches of rainfall, with a maximum intensity of 4.5 inches within 1½ hours. San Luis Obispo Creek and Laguna Lake flooded 70 homes in the City of San Luis Obispo, and reportedly swept nearly 100 automobiles down flooded streets. High tides and winds caused damage along the coast; while washed-out roads and swollen streams stranded families and communities inland. Damage was estimated at \$7.1 million, and the county was declared a disaster area by the Governor.

In South San Francisco, Colma Creek once again flooded extensive portions of the adjacent residential, commercial, and industrial sections of the City. The combined damages of October, November, and January resulted in its designation by the Governor as a disaster area. Official estimates of flood damage were set at \$2.2 million, but claims reached \$5.5 million.

Other results of the January storms and high tides included flooding of Edgerly Island in the Napa River delta,



Flood fight operations during flooding of Edgerly Island in the Napa River delta on January 17, 1973. (Photo by the Napa Register)

Van Sickle Island in the Suisun Marsh, and Liberty Island near the downstream end of the Yolo Bypass. When gale winds, high tides, and high river stages combined to threaten protective levees in the Sacramento-San Joaquin Delta, strenuous flood-fighting efforts saved several islands from being inundated.

February 1973: The season's wet regime continued in February. Blocking highs in the Alaska-Siberia sector again held the storm track at a southerly latitude. The major rain-producing storms occurred on February 4-7, 10-14, and 24-28. One-day totals of 2 to 3 inches were common in much of the center of the State and along the south coastal area. The highest intensities occurred in the San Gabriel Mountains north of Los Angeles where stations at Big Tujunga Dam, Mt. Wilson, and Camp Hi-Hill reported 24-hour totals of 7.91, 9.79, and 12.84 inches, respectively, during the storm of February 10-11. For the month of February, these stations reported rainfall totals of 16.38, 22.63, and 25.83 inches, respectively.

Runoff from these storms--on the heels of a very wet January--again produced extensive damage: communities and agricultural areas were flooded from direct runoff and swollen minor streams; roads, bridges, minor levees, and channels sustained severe erosion damage. Although no major river was reported to have caused serious damage, "local" flooding, slides, and erosion was so extensive that, combined with the January damage, seven counties were declared disaster areas. These were Colusa, Glenn, Placer, Sutter and Yuba Counties in the Sacramento Valley, Napa County in the San Francisco Bay Hydrographic Area, and Ventura County in the South Coastal Hydrographic Area. Three counties and a city had previously been declared disaster areas (Monterey County in October 1972, Marin and San Luis Obispo Counties in January 1973, and the City of South San Francisco in January 1973), bringing the total count of disaster areas for the season

to eleven--all this without a major flood by a major stream in the State.

But even this impressive number of declared disaster areas does not fully tell the story of local flooding that occurred during February. As examples: 15 San Joaquin Valley families were driven from their homes by flooded Lewis Creek near Porterville in Tulare County; Sacramento Valley communities in Yolo and Solano Counties, which were fields of snow in December 1972, became seas of flood water in February 1973; the storm of February 28 dumped over one-half inch of rain in 10 minutes on the City of Sacramento and flooded streets and underpasses during the evening rush hour; and public and private property in Alameda, San Mateo, and southern Sonoma Counties sustained extensive flood and slide damage.

March - September 1973: The cool, wet weather regime over the State extended through most of March. Eleven weather fronts brought significant precipitation during three periods: March 1-12, 17-22, and 30-31. Although the precipitation was generally above normal throughout the State, the storms were less intense than those of January and February, and no serious flooding was reported. Although the remainder of the season (April - September) produced less than normal rainfall, by the end of March the Central Valley and most of the coastal areas of the State had received over 150 percent of normal annual rainfall and nearly double the amount normal for that portion of the season (October 1 - March 30), despite a relatively cold, dry December.

The Sacramento River was at high stage almost constantly from mid-November 1972 through mid-March 1973. Flood stage was reached at Vina-Woodson Bridge on January 16, 1973, but no damage was reported; the first overflow to the bypass system occurred November 14, and the last overflow of the season did not end until March 15.



Above, Devil's Gate Reservoir filled and sent water over the spillway of the dam to Arroyo Seco. On February 11, 1973, the rushing water reclaimed the natural channel that had been occupied by the Foothill Freeway bridge falsework. (Photo by the Montrose Ledger)



Left, flooded freeway underpass in Sacramento on February 28, 1973. (Photo by the Sacramento Union)

Some significant erosion occurred along the Sacramento River: two areas required emergency repair by the U. S. Army Corps of Engineers; and some riverbank homes near Hamilton City were threatened but

no major damage was reported. With the aid of the major flood control reservoirs, the large streams of the State conducted the runoff from this wet season without major flooding.

FIGURE 3

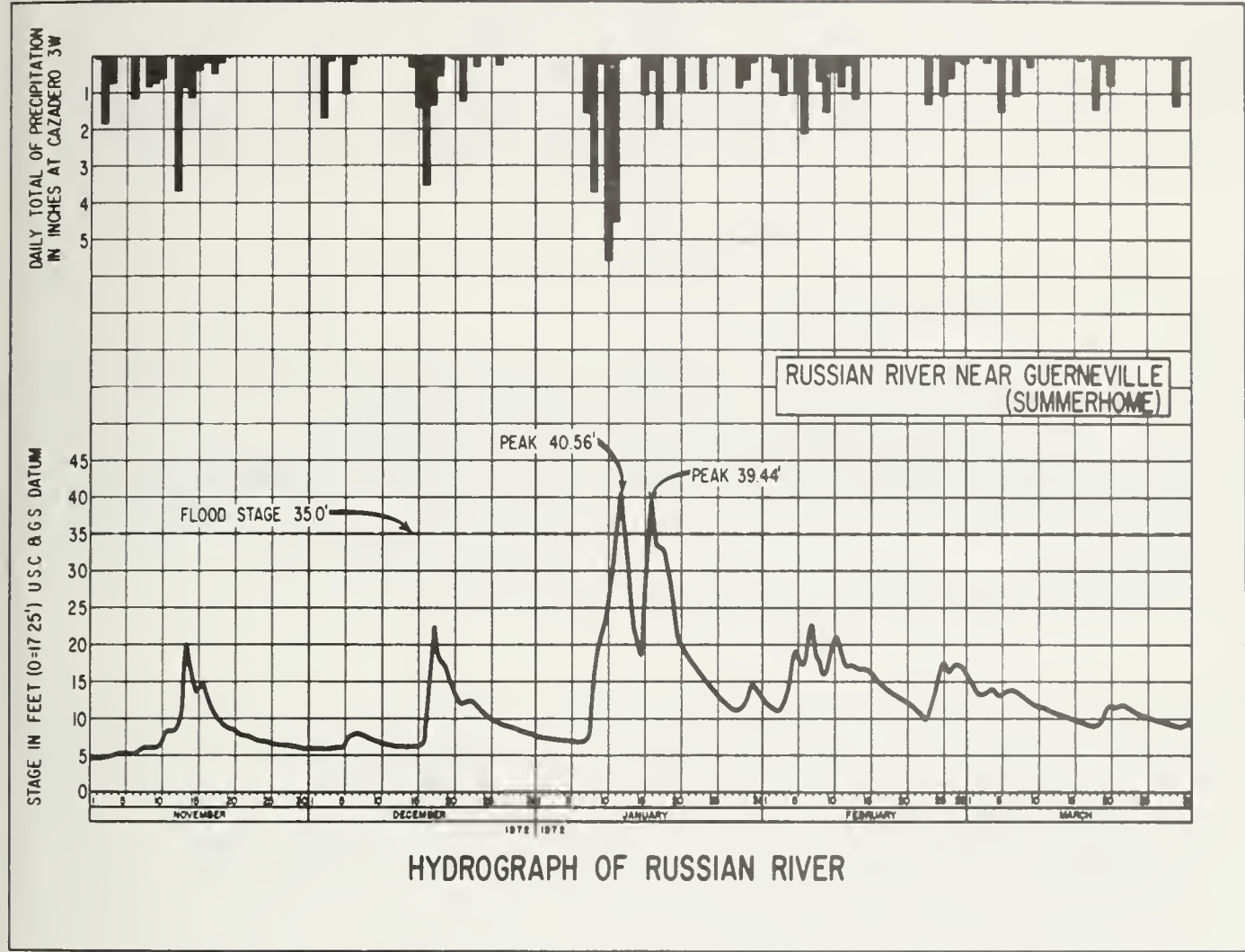
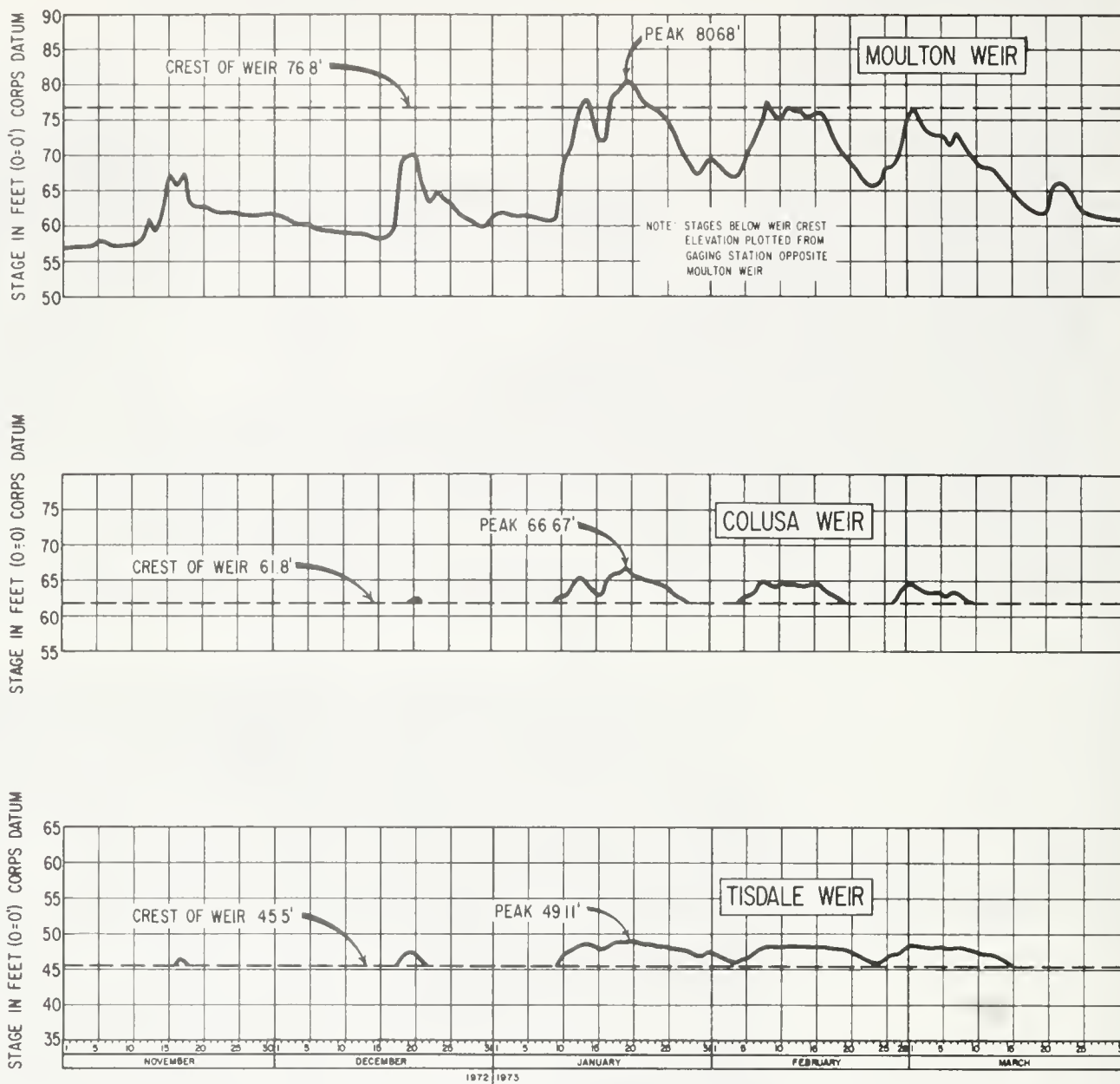
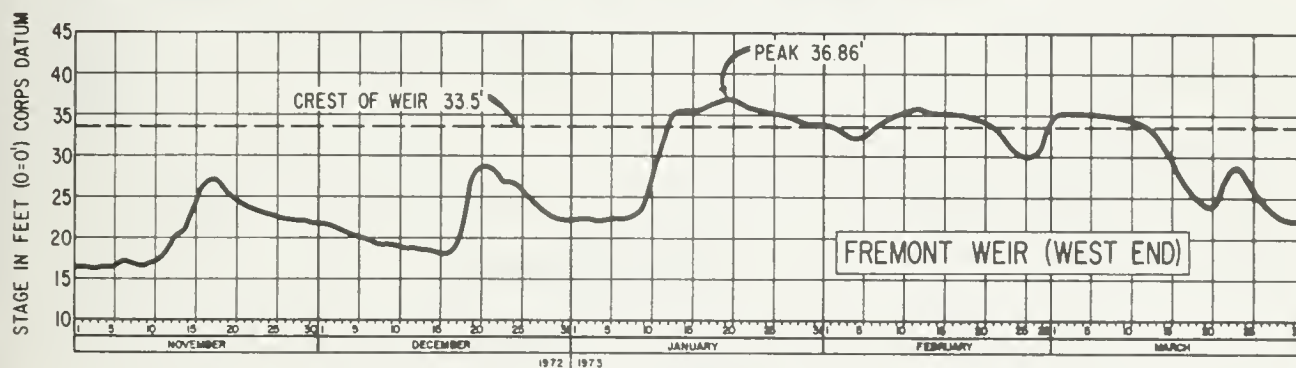
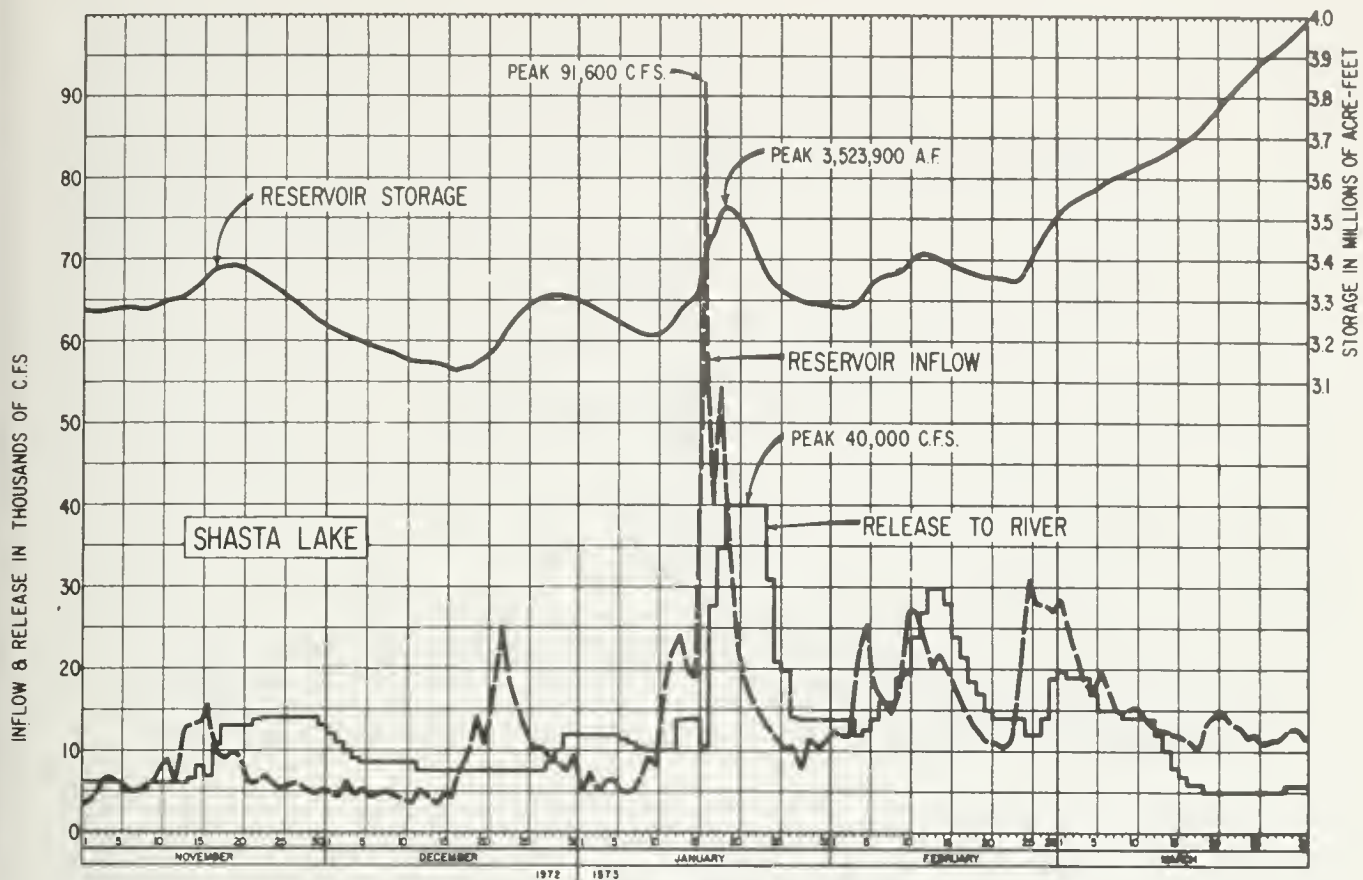


FIGURE 4

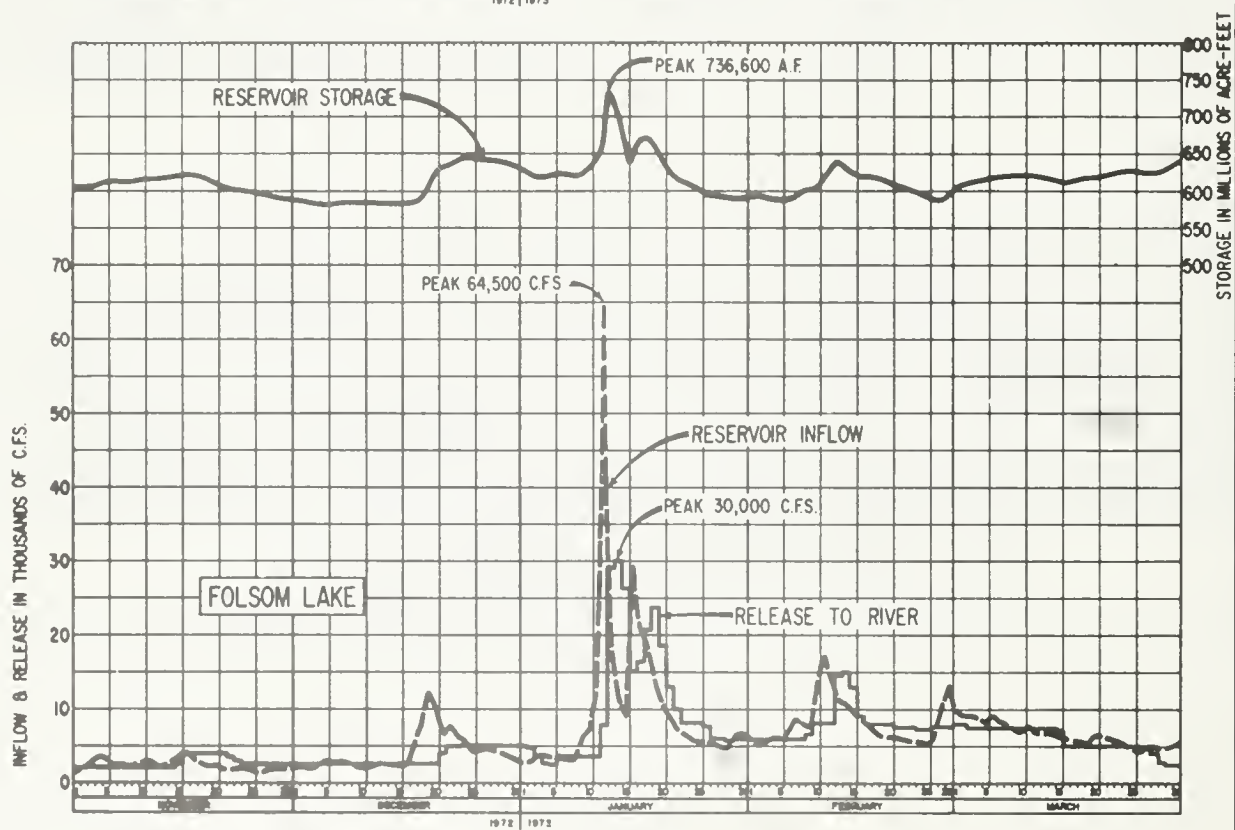
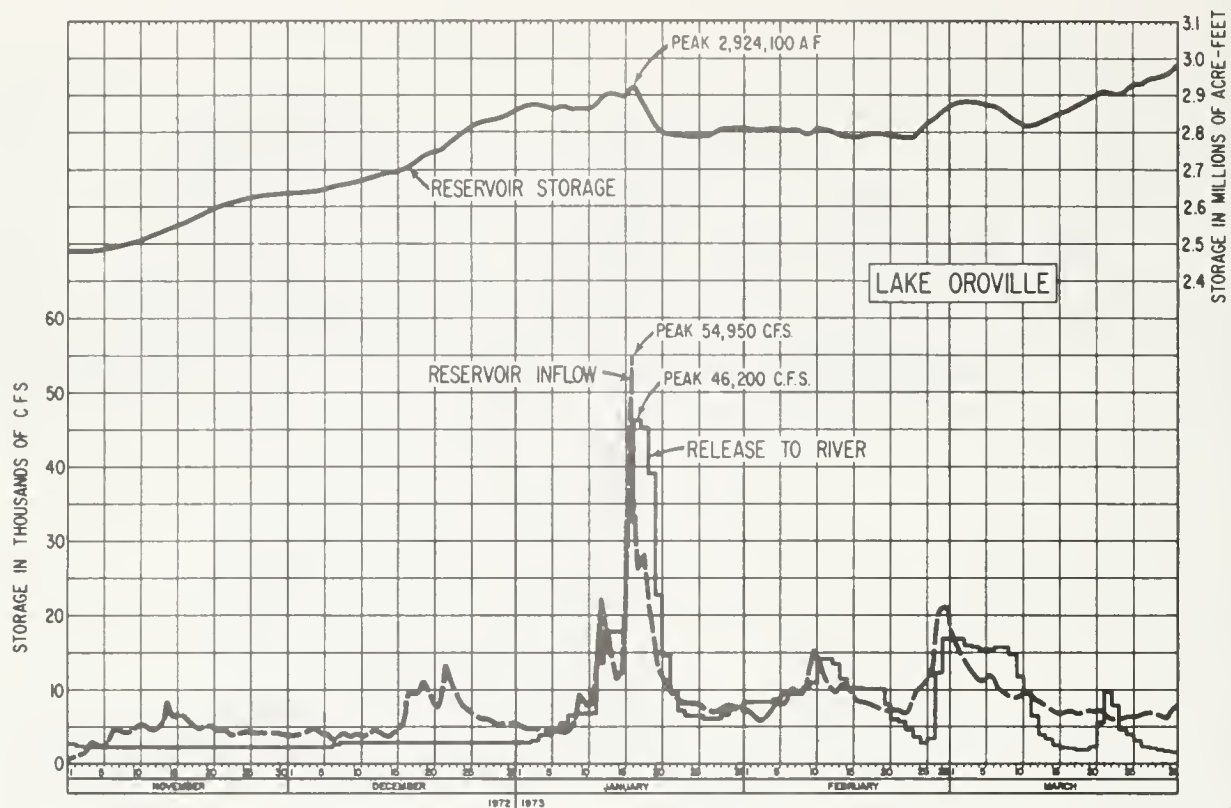


OVERFLOW TO BUTTE BASIN AND SUTTER BYPASS



HYDROGRAPHS OF SHASTA LAKE AND SACRAMENTO RIVER

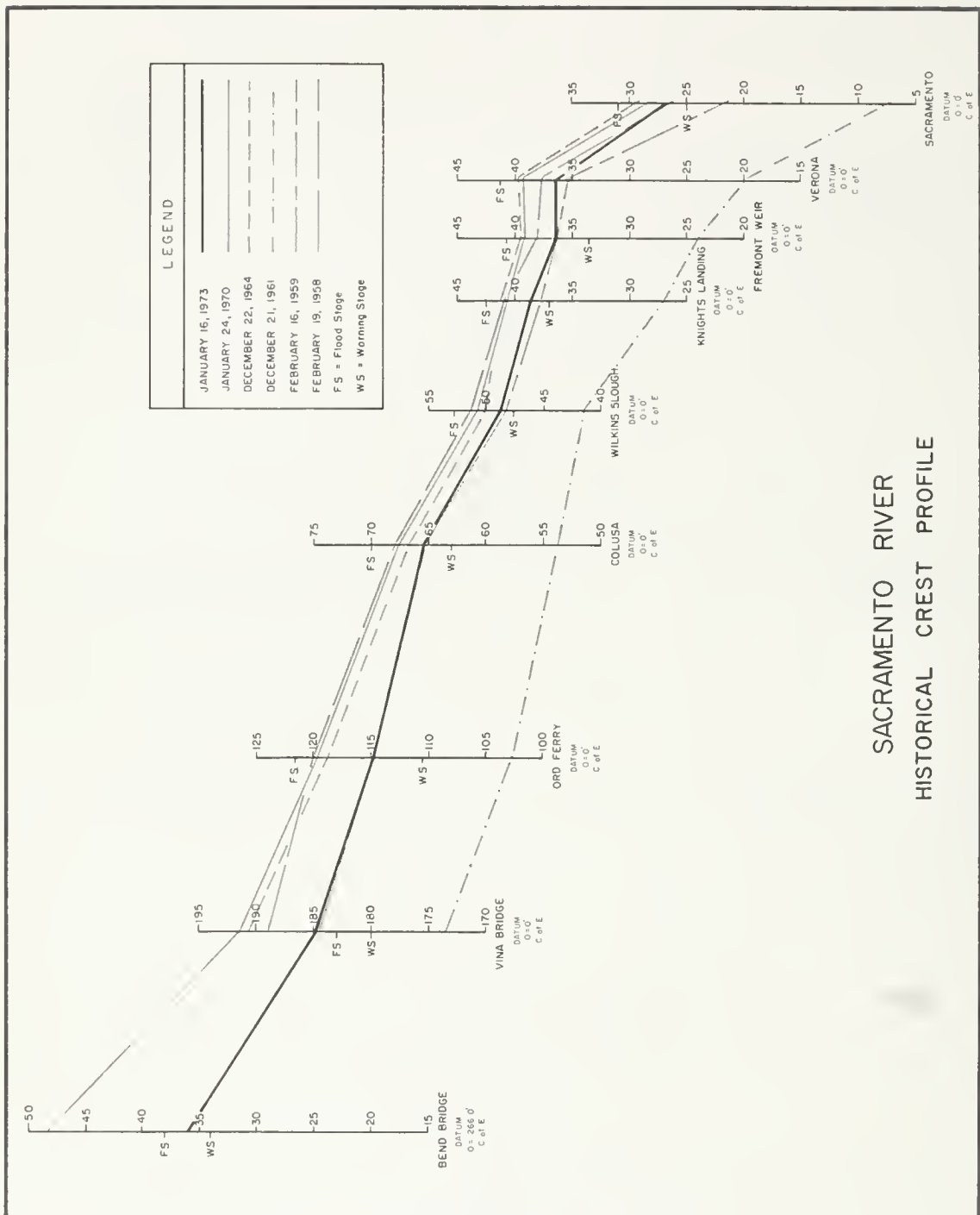
FIGURE 6



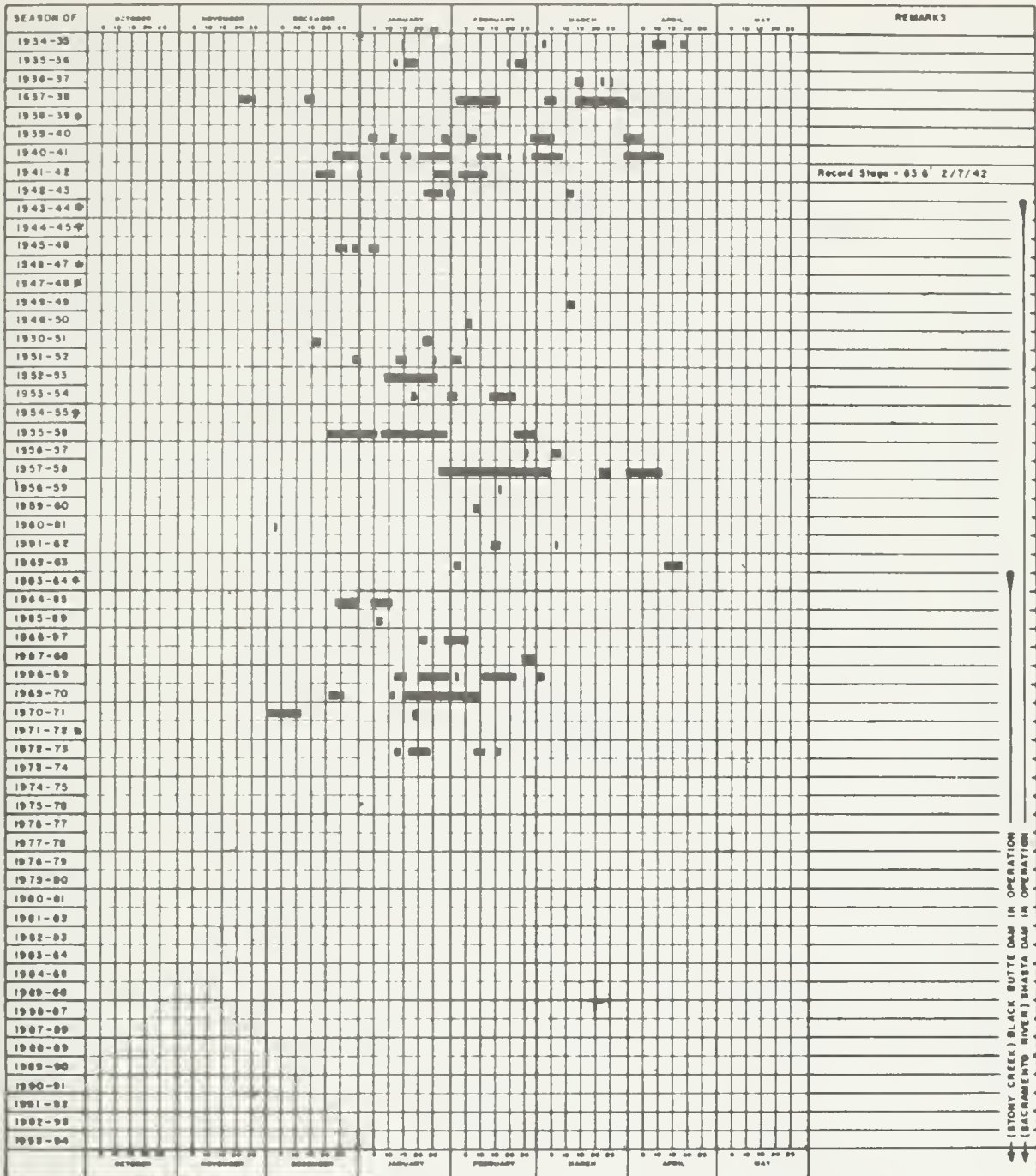
HYDROGRAPHS OF LAKE OROVILLE AND FOLSOM LAKE

APPENDIX A

Sacramento River Crest
and
Weir Overflow Records



PERIOD OF RECORD OF OVERFLOW OF THE MOULTON WEIR



NOTE:

Data compiled from records of S.W.R. stream gaging station "Sacramento River at Moulton Weir"

Datum: 0 = S.W.L.E.O.

Period of record: 1939 to present

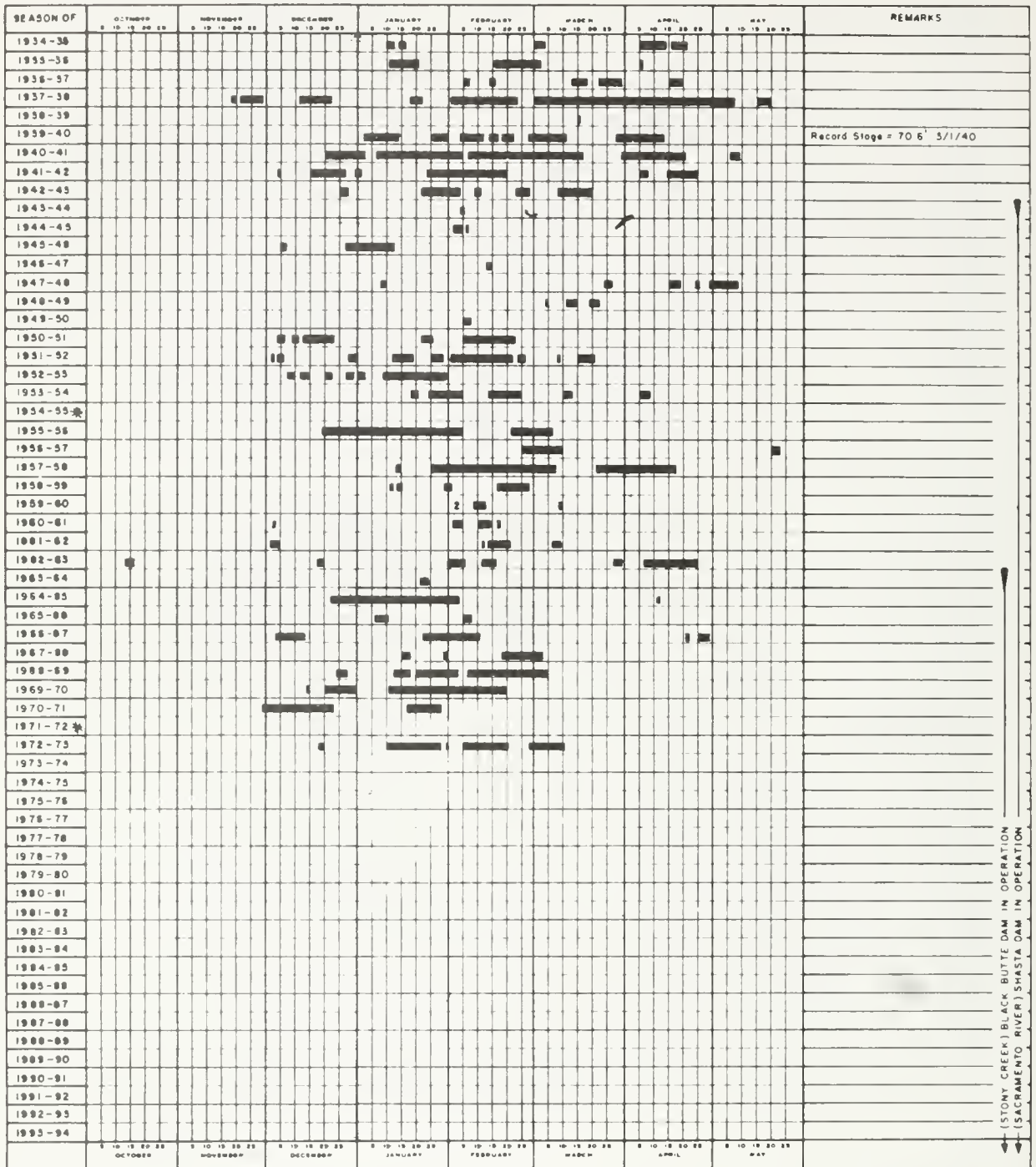
Crest elevation = 78.75 feet

LEGEND

- Designates periods of flow over weir
- Designates season of no flow

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PERIOD OF RECORD OF OVERFLOW OF THE COLUSA WEIR



NOTE

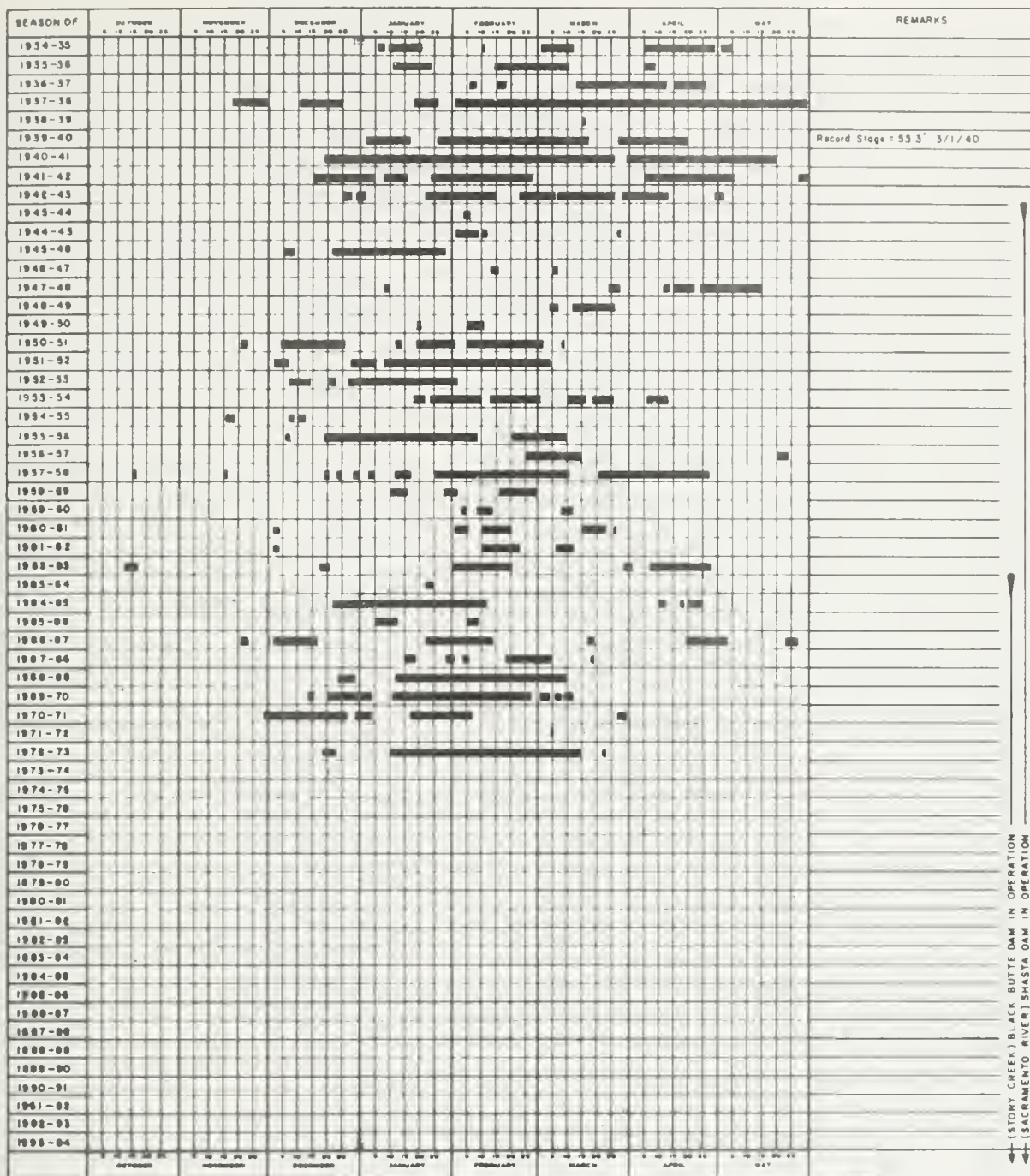
Data compiled from records of D.W.R. stream gaging station "Sacramento River at Colusa Weir"
Datum: O+O.U.S.E.D.
Period of record: 1935 to present
Crest elevation = 51.80 feet

LEGEND

— Designates periods of flow over weir
□ Designates season of no flow

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PERIOD OF RECORD OF OVERFLOW OF THE TISDALE WEIR



NOTE:

Data compiled from records of U.S. stream gaging station "Sacramento River at Tisdale Weir"

Datum: 0 = U.S.C.G.S.

Period of record: 1935 to present

Crest elevation = 46.46 feet

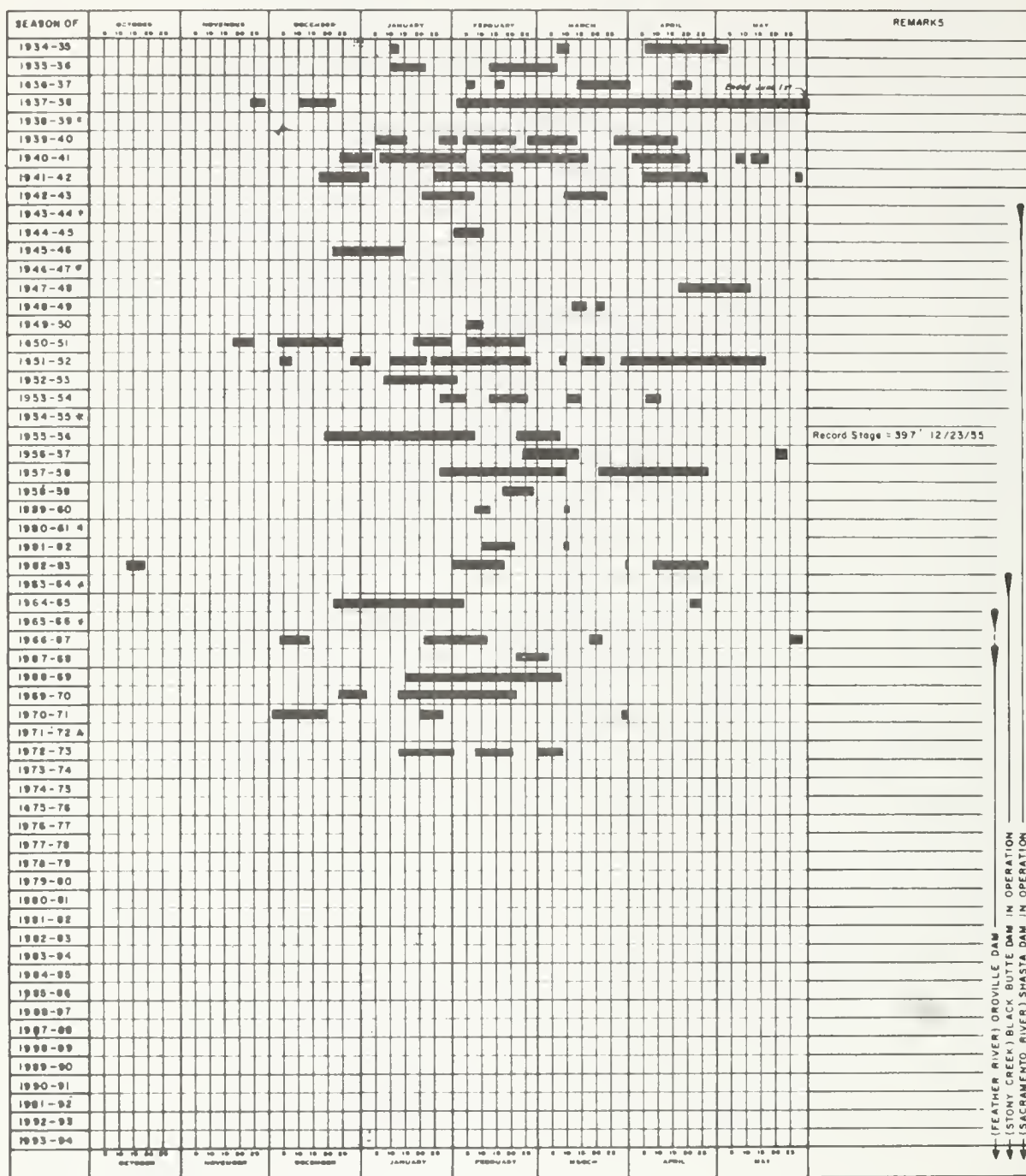
LEGEND

Designates periods of flow over weir

Designates season of no flow

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THE RESOURCES AGENCY
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PERIOD OF RECORD OF OVERFLOW OF THE FREMONT WEIR



NOTE:

Data compiled from records of B.W.R. stream gaging station "Sacramento River at Fremont Weir, West 2nd"

Datum: O = O.U.S.E.S.

Period of record: 1934 to present

Crest elevation = 93.60 feet

LEGEND

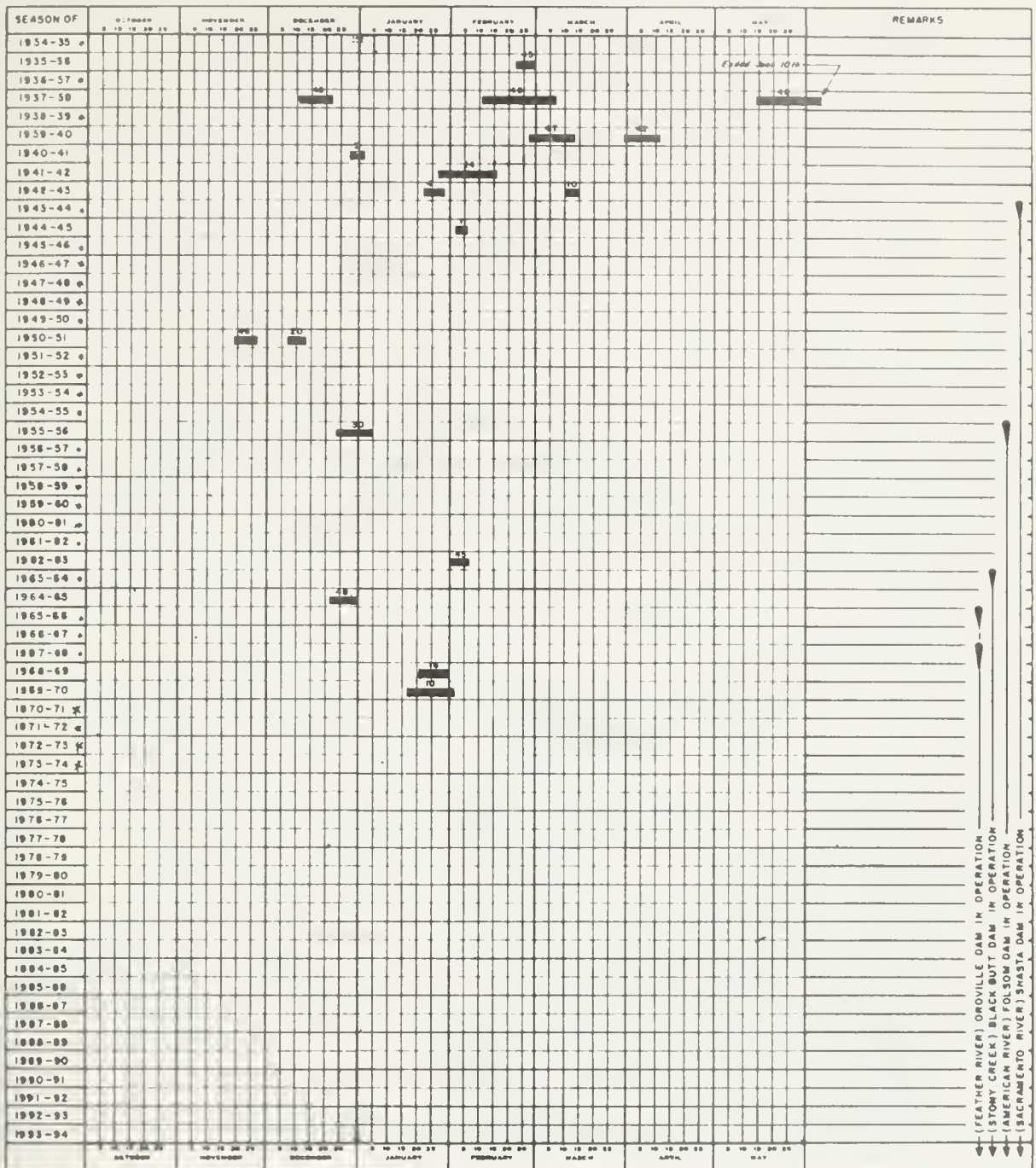
Designates periods of flow over weir

Designates season of no flow

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THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

Sheet 1 of 1

PERIOD OF RECORD OF OVERFLOW OF THE SACRAMENTO WEIR



NOTE:

Data compiled from records of D.W.R. stream gaging station "Sacramento Weir Spill to Yuba Bypass, near Sacramento"
 Datum: O = O.U.S.E.S.
 Period of record: 1926 to present
 Crest elevation = 24.78 feet
 Elevation of top of gates = 31.0 feet

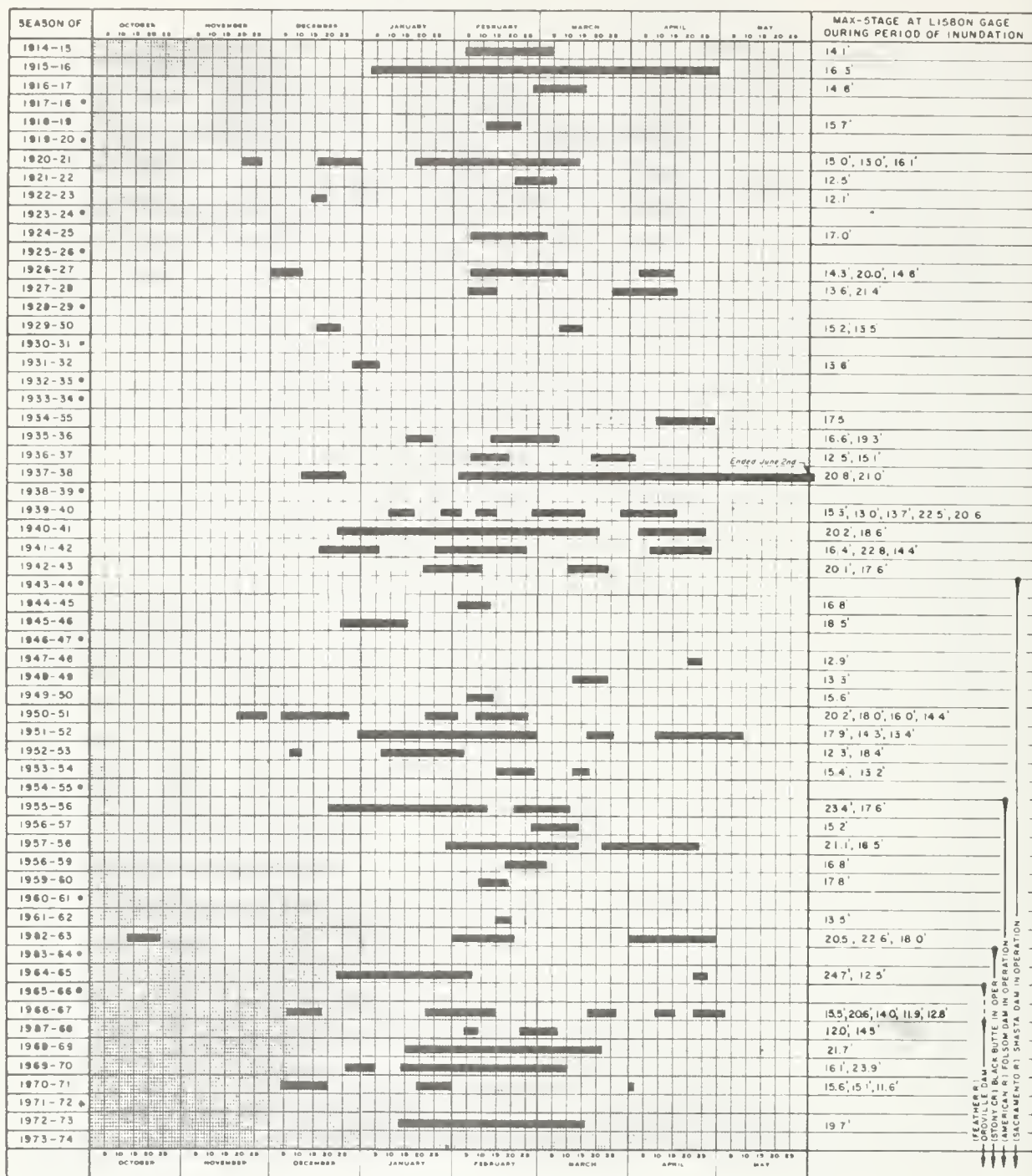
LEGEND

5 Designates periods of flow over weir and total number of gates opened
 p Designates season of no flow

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 THE RESOURCES AGENCY
 DEPARTMENT OF WATER RESOURCES

Report W-7

PERIOD OF RECORD OF INUNDATION OF THE YOLO BYPASS



NOTE

Data compiled from records of DWR stream gaging station "Yolo Bypass near Lisbon."

Datum: O-U S E D Datum

Period of Record: 1914 to Present

Assumed overflow of Bypass at stage above 11.5' on the Lisbon gage

LEGEND

- Designates period of inundation of Bypass
- Designates season Bypass not inundated

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APPENDIX B

Peak Flows and Stages
at
Selected Streams and Stations in California

INTRODUCTION

Appendix B presents data for selected stations on representative streams of the major hydrographic areas of California (Figure 1). The data are obtained from USGS Surface Water Records, Department of Water Resources Bulletin No. 130, and U. S. Department of Commerce, NOAA, National Weather Service, Daily River Stage publications. Current water year data are preliminary and are subject to revision.

Stations are listed in a downstream direction along the main stream and tributaries. Stations on tributaries are listed between main stream stations in the order in which the tributaries enter the main stream.

LEGEND

USGS	United States Geological Survey
USBR	United States Bureau of Reclamation
NOAA	National Weather Service (National Oceanic and Atmospheric Admin.)
USCE	United States Corps of Engineers
DWR	Department of Water Resources
PG&E	Pacific Gas and Electric Company
A	From flood marks
B	Discharge over weir or spillway
C	Site or datum then in use
D	Discharge not determined, affected by backwater or tide
E	Estimated
F	From DWR telemetering log
G	Preliminary
H	Includes flow through power plant
I	Due to failure of partially completed dam
J	Gage height revised
K	Flow through power plant not included
L	Discharge at latitude of gaging station site
M	Prior to construction of upstream dam
N	Includes flow through fish hatchery but not upstream diversion to Thermalito Afterbay
P	Observed
Q	Estimated peak inflow to partially completed Oroville Reservoir
R	Regulated stage and flow
S	Revised to current datum
T	Datum of gage is 0=0 USED
U	Crest stage partial recorded
N/A	Not available at report time
<input type="checkbox"/> *	Peak of record established current year

PEAK FLOWS AND STAGES

STREAM AND STATION	Drainage	Period	Source	Previous Maximum		1974-1975		1976-1977	
	Area in	of	of	of Record		Water		Year	
	Sq Miles	Record	Record	Date	Stage in Feet	Discharge in CFS	Date	Stage in Feet	Discharge in CFS
<u>NORTH COASTAL AREA</u>									
SMITH RIVER BASIN									
SMITH RIVER NEAR CRESCENT CITY	609	1931-	USGS	12-22-64	48.5	228,000	12-22-72	25.62	44,400
KLAMATH RIVER BASIN									
SOASTA RIVER NEAR YREKA	793	1935-41 1944-	USGS	12-22-64 12-22-64	12.9 13.9(A)	21,500 -	12-17-72	3.62	240
SUTT RIVER NEAR FORT JONES	653	1941-	USGS	12-22-64	25.3(A)	54,600	12-22-72	9.77	3,510
KLAMATH RIVER NEAR SEiad VALLEY	6980	1912-25 1951-	USGS	12-23-64	33.8(A)	165,000	1-16-73	6.33	10,300
SALMON RIVER AT SHERBURN	751	1911-15 1927-	USGS	12-22-64	40.6(A)	133,000	1-13-73	10.82	1,900
KLAMATH RIVER AT ORRELLS	8475	1927-	USGS	12-22-64	76.5(A)	307,000	1-13-73	14.99	33,900
TRINITY RIVER ABOVE COFIELD CREEK NEAR TRINITY CENTER	149	1957-	USGS	12-22-64 12-22-64	12.3 13.4(A)	20,800 -	12-22-72	5.86	2,640
TRINITY RIVER AT LEWISTON	728	1911-	USGS	12-22-55	27.3(A)	71,600	7-28-73	4.19	540
NORTH FORK TRINITY RIVER AT HELENA	151	1911-13 1957-	USGS-DWR	12-22-64	27.9(A)	35,800	1-16-73	12.79	3,590
TRINITY RIVER NEAR BURNT RANCH	1439	1931-40 1956-	USGS	12-22-55	43.2(A)	172,000	1-13-73	10.16	6,820
HAYFORK CREEK NEAR HYAMPUM	378	1953-	USGS	12-22-64	19.1	28,800	1-16-73	12.57	10,400
WILLOW CREEK NEAR WILLOW CREEK	41	1959-	USGS	12-22-64	20.6(A)	17,000	12-22-72	6.98	1,350(E)
TRINITY RIVER AT HOOPA	2665	1911-14 1916-18 1931-	USGS	12-22-64	40.3(A)	231,000	1-16-73	31.32	45,100
KLAMATH RIVER NEAR KLAMATH	12100	1910-26 1950-	USGS	12-23-64	53.3(A)	557,000	1-17-73	17.88	97,800
REDFORD CREEK BASIN									
REDFORD CREEK AT ORICK	276	1911-13 1953-	USGS	12-22-64	24.6(A)	50,500	12-17-72	11.67	10,000
LITTLE RIVER BASIN									
LITTLE RIVER NEAR TRINIDAD	44	1955-	USGS	1-22-72 1-17-53	14.06 15.7(A)	9,720 -	12-17-72	5.52	1,760
MAO RIVER BASIN									
MAO RIVER NEAR FOREST GLEN	143	1953-	USGS	12-22-55	24.5(A)	39,200	1-16-73	9.11	6,200
MAO RIVER NEAR ARCATA	485	1910-13 1930-	USGS	12-22-55	29.8	77,800	1-16-73	13.07	14,000
EEL RIVER BASIN									
EEL RIVER BELOW SCOTT DAM NEAR PUTTER VALLEY	290	1922-	USGS	12-22-64	24.2(A)	56,300	1-16-73	14.51	11,300
EEL RIVER AT VAN ARSUALE DAM NEAR PUTTER VALLEY	349	1909-	USGS	12-22-64	33.9(A)	64,100	1-16-73	19.27	17,600
OUTLET CREEK NEAR LONGVALE	161	1956-	USGS	12-22-64	30.6(A)	77,900	1-16-73	13.05	11,600
BLACK BUTTE RIVER NEAR COV-LEI	162	1951-	USGS	12-22-64 12-11-37	26.4(A) 36.2(A)	29,000 -	1-16-73	18.67	5,280
NORTH FORK EEL RIVER NEAR MINA	246	1953-	USGS	12-22-64	33.6(A)	135,000	1-16-73	17.03	19,400

PEAK FLOODS AND STAGES (CONTINUED)

RIVER AND STATION	DRAINAGE AREA IN SQ MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR			
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS	
NORTH COASTAL AREA (CONTINUED)										
EEL RIVER BASIN (CONTINUED)										
EEL RIVER AT FORT SHERIDAN	2197	1935-	USGS	12-22-64	87.2(A)	561,000	1-16-73	33.30	94,800	
TRIMBLE CREEK NEAR LAYTONVILLE	50	1957-	USGS	12-22-55	22.9(A)	16,300	12-17-72	12.63	11,200	
SOUTH FORK EEL RIVER NEAR MIRANDA	537	1939-	USGS	12-22-64	46.0(A)	199,000	1-15-73	19.63	44,500	
BILL CREEK NEAR WELT	28	1960-	USGS	12-22-64	20.6(A)	6,520	1-16-73	8.16	1,160	
EEL RIVER AT SCOTIA	3113	1910-	USGS	12-23-64	72.0(A)	752,000	1-16-73	34.02	154,000	
VAN DUZEN RIVER NEAR BRIDGEVILLE	222	1950-	USGS	12-22-64	24.0(A)	48,700	1-16-73	14.83	18,200	
MATTULE RIVER BASIN										
MATTULE RIVER NEAR PETROLIA	240	1911-13 1915-	USGS	12-22-55	29.6(C)	90,400	12-17-72	17.87	34,400	
NGUY RIVER BASIN										
NGUY RIVER NEAR FORT BRAGG	106	1951-	USGS	12-22-64	26.3	24,000	1-16-73	16.27	5,720	
NAVARRO RIVER BASIN										
NAVARRO RIVER NEAR NAVARRO	303	1950-	USGS	12-22-55	40.6(C)	64,500	1-16-73	23.28	16,700	
RUSSIAN RIVER BASIN										
RUSSIAN RIVER NEAR UKIAH	100	1911-13 1952-	USGS	12-21-55	21.0	16,900	1-11-73	17.18	7,320	
EAST FORK RUSSIAN RIVER NEAR CALPELLA	92	1941-	USGS	12-22-64	20.2	16,700	1-16-73	15.62	5,690	
RUSSIAN RIVER NEAR HUPLAND	362	1939-	USGS	12-22-55 12- -37	27.0 30.0(A)	45,000 --	1-12-73	16.55	14,800	
RUSSIAN RIVER NEAR CLOVERDALE	503	1951-	USGS	12-22-64	31.6(C)	55,200	1-16-73	16.67	18,900	
DILL SULPHUR CREEK NEAR CLOVERDALE	82	1957-72	USGS	12-22-55	16.8(A)	20,000	STATION DISCONTINUED			
RUSSIAN RIVER NEAR MCALDSBURG	793	1939-	USGS	12-23-64 12- -37	27.0 30.0(A)	71,300 --	1-16-73	18.68	39,700	
LEY CREEK NEAR CLOVERDALE	88	1941-	USGS	12-22-64	18.1	18,100	1-12-73	12.94	9,920	
DEY CREEK NEAR GEYSERVILLE	162	1959-	USGS	1-31-63	17.5	32,400	1-12-73	15.09	15,600	
RUSSIAN RIVER NEAR GUERNEVILLE (SUMMERHOML)	1340	1939-	USGS	12-23-64 12-23-55	49.6(A) 49.7(A)	93,400 --	1-12-73	40.56	62,500	
SAN FRANCISCO BAY AREA										
WALKER CREEK BASIN										
WALKER CREEK NEAR TUMALEFS	37	1959-	USGS	1- 5-66	22.2	5,420	1-16-73	22.91	6,600*	
CURTE MADRA CREEK BASIN										
CURTE MADRA CREEK AT FUSS	18	1951-	USGS	12-22-55	17.5	3,620	1-16-73	16.16	2,700	
NOVATI CREEK BASIN										
NOVATI CREEK NEAR NOVATO	18	1946-	USGS	1-14-70	11.0	2,000	1-16-73	10.90	1,970	

PLANK FLOWS AND STAGES (CONTINUED)

STREAM AND STATION	DRAINAGE AREA IN SQ MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR		
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS
SAN FRANCISCO BAY AREA (CONTINUED)									
SUNUM CREEK BASIN									
YUMA CREEK AT AGUA CALIENTE	55	1955-	USGS	12-22-55	17.1(C)	8,880	1-16-73	15.35	8,830
NAPA RIVER BASIN									
NAPA RIVER AT ST. HELENA	61	1929-32 1939-	USGS	12-22-55	16.2	12,600	1-16-73	15.10	11,300
NAPA RIVER AT NAPA	216	1929-32 1939-	USGS	1-31-63	27.6	16,900	1-16-73	21.4	13,900
PACHICO CREEK AT NAPA	10	1955-	USGS	1-5-65	10.4	1,450	1-16-73	8.1	1,260
PACHICO CREEK BASIN									
SAN RAMON CREEK AT SAN RAMON	6	1952-	USGS	10-13-62	17.0	1,600	1-16-73	5.76	510
SAN LORENZO CREEK BASIN									
SAN LORENZO CREEK AT HAYWARD	38	1939-40 1946-	USGS	10-13-62 12-22-55	19.7(A) 20.8(A)	7,460 --	2-27-73	14.24	3,540(R)
ALAMEDA CREEK BASIN									
ARROYO MUCHO NEAR PLEASANTON	141	1962-	USGS	2-1-63	16.60(C)	1,760	1-16-73	12.47	1,700*
ARROYO VALLE NEAR LIVERMORE	147	1912-39 1957-	USGS	12-23-55	13.9(A)	18,260	2-11-73	5.39	1,030(R)
ARROYO VALLE AT PLEASANTON	171	1957-	USGS	4-3-58	25.4	11,300	2-13-73	11.17	1,060(R)
ALAMEDA CREEK NEAR MILCS	633	1891-	USGS	12-23-55	14.9	29,000	1-16-73	9.2	8,350(R)
PATTERSON CREEK AT UNION CITY	--	1958-	USGS	2-1-63	20.4(A)	10,500	1-16-73	15.18	6,100(R)
ALAMEDA CREEK AT UNION CITY	653	1958-	USGS	2-1-63	19.3(A)	1,770	2-27-73	11.61	100(R)
COYOTE CREEK BASIN									
COYOTE CREEK NEAR MADRONE	196	1952-12 1916-	USGS	3-7-11	--	25,000	6-9-73	2.43	75(R)
UPPER PENITENCIA CREEK AT SAN JOSE	22	1961-	USGS	1-21-67	6.2	15,000	1-16-73	5.07	490
SACRAMENTO RIVER BASIN									
ALAMITOS CREEK NEAR NEW ALMAZEN	32	1953-72	USGS	4-2-58	9.7	4,300	STATION DISCONTINUED		
SACRAMENTO RIVER AT SAN JOSE	144	1929-	USGS	4-2-58	16.6	9,150	1-16-73	8.31	4,380(R)
SARATOGA CREEK AT SARATOGA	9	1933-	USGS	12-22-55	6.4(C)	2,730	1-16-73	6.03	1,580
MATADERO CREEK BASIN									
MATADERO CREEK AT PALO ALTO	7	1952-	USGS	12-22-55	9.6(C)	854	2-27-73	5.37	1,100*
SAN FRANCISCO CREEK BASIN									
SAN FRANCISCO CREEK AT STANFORD UNIVERSITY	38	1930-41 1930-	USGS	12-22-55	13.8	5,560	1-16-73	7.64	3,390

PEAK FLOWS AND STAGES (CONTINUED)

STREAM AND STATION	DRAINAGE AREA IN SQ MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR		
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS
CENTRAL COASTAL AREA									
REDWOOD CREEK BASIN									
REDWOOD CREEK AT REDWOOD CITY	2	1959-	USGS	1-31-63	9.4	844	11-15-72	7.55	460
PESCADERO CREEK BASIN									
PESCADERO CREEK NEAR PESCADERO	46	1951-	USGS	12-23-55	21.5	9,420	1-16-73	15.21	4,750
SAN LORENZO RIVER BASIN									
SAN LORENZO RIVER AT BIG TREES	111	1956-	USGS	12-23-55	22.6	30,400	1-16-73	22.53	11,300
SQUEL CREEK BASIN									
SQUEL CREEK AT SQUEL	40	1951-	USGS	12-23-55	22.3	15,800	1-16-73	12.55	4,530
PAJARO RIVER BASIN									
BUDFISH CREEK NEAR GILROY	7	1959-	USGS	1-31-63	8.3	1,240	1-16-73	5.86	360
TRES PINOS CREEK NEAR TRES PINOS	206	1939-	USGS	4- 4-41	7.8	8,060	2-11-73	7.87	5,700
SAN BENITO RIVER NEAR HOLLISTER	586	1949-	USGS	4- 3-58	16.3	11,600	2-11-73	14.57	7,370
PAJARO RIVER AT CHITTENUEEN	1186	1939-	USGS	12-24-55 4- 3-58	32.5 33.1	24,000	2-11-73	17.73	12,500
CORRALITOS CREEK NEAR CORRALITOS	11	1957-72	USGS	4- 2-58	7.8	1,970	STATION DISCONTINUED		
CORRALITOS CREEK AT FREEDOM	26	1956-	USGS	12-22-55	15.6(A)	5,620	1-16-73	10.09	1,930
SALINAS RIVER BASIN									
SALINAS RIVER NEAR PUZO	70	1942-	USGS	1-25-69 1-25-69	13.9(C) 15.5(A)	18,600	2-11-73	17.15	8,920
SALINAS RIVER ABOVE PILITAS CREEK NEAR SANTA MARGARITA	114	1942-	USGS	1-25-69	14.7	18,600	2-11-73	4.33	1,640
JACK CREEK NEAR TEMPLETON	25	1949-	USGS	2-24-69	11.3	8,180	1-16-73	7.87	2,760
ESTRELLA RIVER NEAR ESTRELLA	922	1954-	USGS	2-24-69	10.4(A)	32,500	2-11-73	7.09	6,000
NACIMIENTO RIVER NEAR BRYSON	140	1955-71	USGS	1-25-69	24.60	39,100	STATION DISCONTINUED		
NACIMIENTO RIVER BELOW SAPAQUE CREEK NEAR BRYSON	156	1971-	USGS	1-25-71	16.64	7,890	1-16-73	23.00	24,300*
SALINAS RIVER NEAR BRADLEY	2535	1948-	USGS	2-24-69	20.3(A)	117,000	2-11-73	11.30	11,400
ARROYO SECO NEAR SOLEDAD	244	1961-	USGS	4- 3-58	16.4	26,300	2-11-73	11.15	9,880
SALINAS RIVER NEAR SPRECKELS	4156	1909-01 1929-	USGS	2-26-69 1-16-52	26.5(C) 26.9(A)	83,100 --	2-12-73	16.04	16,140
CARMEL RIVER BASIN									
CARMEL RIVER AT RUBLES DEL RIO	193	1957-	USGS	4- 2-58 12-23-55	10.5 11.7(A)	7,100 6,730	2-11-73	9.09	3,120
BIG SUR RIVER BASIN									
BIG SUR RIVER NEAR BIG SUR	47	1950-	USGS	4- 2-58	11.6	5,680	2-11-73	8.36	2,790

PEAK FLOWS AND STAGES (CONTINUED)

STREAM AND STATION	DRAINAGE AREA 1. SQ. MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR		
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS
CENTRAL COASTAL AREA (CONTINUED)									
ARROYO DE LA CRUZ BASIN									
ARROYO DE LA CRUZ NEAR SAN SIMON	41	1940-	USGS	12- 6-66	19.5	35,200	1-18-73	11.14	12,720
SANTA ROSA CREEK BASIN									
SANTA ROSA CREEK NEAR CAMBRIA	13	1957-	USGS	1-25-69 12- -55	12.0 15.2(A)	3,350 - -	1-18-73	10.02	2,780
SANTA MARIA RIVER BASIN									
SISUOC RIVER NEAR GARLY	471	1949-	USGS	1-25-69	13.0	24,500	2-11-73	9.63	9,190
SANTA MARIA RIVER AT GUADALUPE	1741	1940-	USGS	1-16-52	8.2(C)	32,800	2-11-73	7.23	2,760(A)
SANTA YNEZ RIVER BASIN									
SANTA YNEZ RIVER BELOW GIBRALTAR DAM NEAR SANTA BARBARA	216	1920-	USGS	1-25-69	25.8	54,200	2-11-73	16.95	16,000
SANTA CRUZ CREEK NEAR SANTA YNEZ	74	1941-	USGS	2-24-69	14.5(A)	7,050	1-18-73	11.0	2,590
SAN JOSE CREEK BASIN									
SAN JOSE CREEK NEAR GOLETA	6	1941-	USGS	1-25-69 1-21-43	10.1 12.7	2,000 - -	1-18-73	8.90	1,300
ATASCADERO CREEK BASIN									
ATASCADERO CREEK NEAR GOLETA	19	1941-	USGS	1-25-69	13.0	5,230	1-18-74	12.83	3,830
CARPINTERIA CREEK BASIN									
CARPINTERIA CREEK NEAR CARPINTERIA	13	1941-	USGS	12-27-71	14.1(A)	8,880	1-18-73	9.78	1,780
SOUTH COASTAL AREA									
VENTURA CREEK BASIN									
MATILIJIA CREEK AT MATILIJIA HOT SPRINGS	55	1927-	USGS	1-25-69	16.5	29,000	2-11-73	7.56	3,560
VENTURA RIVER NEAR MEINERS OAKS	76	1959-	USGS	1-25-69	- -	28,000(E)	2-11-73	9.40	8,370
LUYUTE CREEK NEAR OAK VIEW	13	1958-	USGS	1-25-69	12.0	8,000	1-18-73	11.5	6,400
VENTURA RIVER NEAR VENTURA	188	1911-14 1929-	USGS	1-25-69	24.3(A)	56,000	2-11-73	16.5	11,500
SANTA CLARA RIVER BASIN									
SANTA CLARA RIVER AT LOS ANGELES-VENTURA CO. LINE	644	1952-	USGS	1-25-69	19.0	66,800	2-11-73	9.20	12,500
PIRU CREEK ABOVE LAKE PIRU	372	1955-	USGS	2-25-69	18.6(A)	31,200	2-11-73	7.30	5,000
SLOPE CREEK NEAR FILLMORE	251	1911-13 1927-	USGS	1-25-69 2-25-69	20.8 25.0(A)	60,000 - -	2-11-73	20.66	31,800
SANTA PAULA CREEK NEAR SANTA PAULA	40	1927-	USGS	2-25-69	15.2(A)	21,000	2-11-73	13.3	13,000
MALIBU CREEK BASIN									
MALIBU CREEK AT CRATER CAMP NEAR CALABASAS	105	1931-	USGS	1-25-69	21.4	33,800	2-11-73	11.92	8,250(E)
BALLONA CREEK BASIN									
BALLONA CREEK NEAR CULVER CITY	90	1928-	USGS	11-21-67	14.0	32,500	2-11-73	6.44	7,130(E)

PEAK FLOWS AND STAGES (CONTINUED)

STREAM AND STATION	DRAINAGE AREA IN SQ MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR		
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS
SOUTH COASTAL AREA (CONTINUED)									
LOS ANGELES RIVER BASIN									
LOS ANGELES RIVER AT SEPULVEDA DAM	158	1929-	USGS	1-25-69	11.4	13,800	2-11-73	9.66	11,190
LOS ANGELES RIVER AT LOS ANGELES	514	1929-	USGS	3- 2-38	- -	67,000	2-11-73	7.70	21,500
EL MOND NEAR DOWNEY	143	1928-	USGS	1-25-69	15.2	46,900	2-11-73	8.10	15,180
SANTA ANA RIVER BASIN									
SANTA ANA RIVER NEAR MENTONE	209	1896-	USGS	3- 2-38	14.3(C)	52,300	2-11-73	5.15	930
SAN GABRIEL RIVER BELOW SANTA FE DAM NEAR BALDWIN PARK	236	1942-	USGS	1-26-69	22.2	30,900	3-22-73	11.16	320
SANTA ANA RIVER AT 'E' ST NEAR SAN BERNARDINO	532	1939-54 1966-	USGS	2-25-69	16.5	28,000	2-11-73	4.97	1,880(E)
MILL CREEK NEAR YUCAITA	42	1919-38 1947-	USGS	1-25-69	16.8(A)	35,400	2-11-73	7.30	90
LYLE CREEK NEAR FONTANA	46	1918-	USGS	1-25-69	15.0(A)	35,900	2-11-73	6.75	1,600
CAJON CREEK NEAR REEBROOK	41	1919-	USGS	3- 2-38	26.0(C)	14,500	2-11-73	6.50	1,360
SANTA ANA RIVER AT RIVERSIDE NARROWS NEAR ARLINGTON	855	1927-	USGS	3- 2-38	- -	100,000	2-11-73	10.45	3,730(E)
SAN JACINTO RIVER NEAR SAN JACINTO	141	1920-	USGS	2-16-27	- -	45,000	2-13-73	10.68	100
SANTIAGO CREEK AT MUDJULIA	13	1961-	USGS	2-25-69	6.2	6,520	2-11-73	6.03	530
SANTIAGO CREEK AT SANTA ANA	95	1928-	USGS	2-25-69 1-16-52	3.1(C) 9.6	6,600 - -	1-16-73	5.30	700
SAN JUAN CREEK BASIN									
SAN JUAN CREEK NEAR SAN JUAN CAPISTRANO	106	1928-	USGS	2-25-69	5.6(A)	22,400	2-11-73	4.17	300
SANTA MARGARITA RIVER BASIN									
SANTA MARGARITA RIVER NEAR TEMECULA	583	1923-	USGS	2-16-27	14.6(C)	25,000	2-13-73	7.47	2,650
SANTA MARGARITA RIVER AT YSIUGRA	739	1923-	USGS	2-16-27	18.0(C)	33,600	2-14-73	12.44	1,250
SAN LUIS REY RIVER BASIN									
SAN LUIS REY RIVER AT MINSEKATE NARROWS NR PALA	373	1935-41 1946-	USGS	2- 7-37	8.7(C)	- -	3-12-73	4.45	390
SAN LUIS REY RIVER NEAR BONSALL	512	1916-18 1929-	USGS	3- 3-38	16.0	18,100	2-11-73	8.46	260
SAN DIEGO RIVER BASIN									
SANTA YSAHEL CREEK NEAR RAMONA	112	1912-23 1943-	USGS	1-27-16	14.0(C)	26,400	3-11-73	5.47	160
SANTA YSAHEL CREEK NEAR SAN PASQUAL	126	1905-12 1947-	USGS	3-24-06	6.3(C)	8,000	3-12-73	3.32	230(K)
SAN DIEGO RIVER BASIN									
SAN DIEGO RIVER NEAR SANTEE	377	1912-	USGS	1-27-16	25.1(C)	70,200	2-13-73	5.13	510
SWEETWATER RIVER BASIN									
SWEETWATER RIVER NEAR DESCANSO	46	1905-27 1926-	USGS	2-16-27	13.2(A)	11,200	3-13-73	5.17	270
TIJUANA RIVER BASIN									
TIJUANA RIVER NEAR DULZURA	431	1936-	USGS	2- 7-37	8.5	4,700	3-14-73	4.03	280

PEAK FLOWS AND STAGES (CONTINUED)

STREAM AND STATION	DRAINAGE AREA IN SQ MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR		
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS
CENTRAL VALLEY AREA									
SACRAMENTO RIVER BASIN									
SACRAMENTO RIVER AT DELTA	425	1944-	USGS	12-22-64	20.1	38,800	1-16-73	13.54	17,900
PIT RIVER NEAR BIEBER	2475	1904-51 1951-	USGS	3-19-07	16.7	33,800	1-18-73	7.20	3,430
PIT RIVER BELOW PIT 10.4 DAM	4647	1922-	USGS	1-25-70	18.1	32,500(EL)	1-19-73	9.39	5,340
MCCLOUD RIVER ABOVE SHASTA LAKE	604	1945-	USGS	12-22-55	28.2	45,200	1-10-73	19.05	12,100
SACRAMENTO RIVER AT KESWICK	6468	1938-	USGS-DWR	2-23-40	47.2(FC)	186,000	1-19-73	25.37	41,200
CLEAR CREEK AT FRENCH GULCH	115	1950-	USGS	12-22-64	13.7	7,600	1-16-73	9.79	3,400
CLEAR CREEK NEAR LUD	228	1940-	USGS	12-21-55	13.8	24,500	1-16-73	7.08	4,140
COW CREEK NEAR MILLVILLE	425	1949-	USGS	12-27-51	21.6	45,200	1-16-73	12.92	19,000
COTTONWOOD CREEK NEAR COTTONWOOD	922	1940-	USGS	12-22-64	19.6	60,000	1-16-73	15.43	27,400
BATTLE CREEK BELOW CLEMAN FISH HATCHERY NEAR COTTONWOOD	358	1961-	USGS	12-11-37	15.8(AC)	35,000	1-16-73	7.41	5,400
SACRAMENTO RIVER AT BEND BRIDGE	--	1960-	DWR	1-24-70	48.3	158,000	1-16-73	35.66	82,300
PAWNEE CREEK NEAR RED BLUFF	93	1949-	USGS	12- 1-61	11.3	10,600	1-16-73	8.38	4,400(UL)
RED BANK CREEK NEAR RED BLUFF	94	1948-	DWR	1- 5-65	10.1	9,730	1-16-73	10.00	8,600
ANTELOPE CREEK NEAR RED BLUFF	123	1940-	USGS	1-23-70	18.0	17,200	1-16-73	12.69	4,920
ELLER CREEK NEAR PASKENTA	95	1948-	USGS	2-24-58	13.9(FC)	11,700	1-16-73	8.55	4,020
MILL CREEK NEAR LOS MOLINOS	131	1909-13 1928-	USGS	12-11-37	23.4(FA)	36,400	1-16-73	9.22	5,610
THOMES CREEK AT PASKENTA	194	1920-	USGS-DWR	12-22-64	15.3	37,800	1-16-73	8.89	7,740
DEER CREEK NEAR VINA	208	1911-15 1920-	USGS-DWR	12-10-37	19.2(FA)	23,800	1-16-73	9.74	7,310
SACRAMENTO RIVER AT VINA BRIDGE	--	1945-	DWR	1-24-70 1-24-70	191.5(FT) - -	171,000 228,000(FL)	1-16-73	184.89	94,510
SACRAMENTO RIVER AT HAMILTON CITY (BEFORE SHASTA DAM)	--	1927-43	DWR	12-11-37	150.7(FC)	350,000(EL)			
SACRAMENTO RIVER AT HAMILTON CITY (AFTER SHASTA DAM)	--	1944-	DWR	1-24-70	150.8(FT)	156,000	1-18-73	144.47	97,580
BIG CHICO CREEK NEAR CHICO	72	1930-	USGS	1- 5-65	15.4	9,580	1-16-73	10.87	5,200
STONY CREEK NEAR FRUIT	598	1901-12 1960-	USGS	12-23-64	15.9	40,200	2 -7-73	12.26	18,900
STONY CREEK NEAR HAMILTON CITY	777	1940-	USGS	2-25-58	18.3	39,900	1-19-73	12.25	10,200
SACRAMENTO RIVER AT ORD FERRY (BEFORE SHASTA DAM)	--	1921-43	DWR	2-28-40	121.7(FT)	370,000(EL)			
SACRAMENTO RIVER AT ORD FERRY (AFTER SHASTA DAM)	--	1944-	DWR	1-24-70	119.8(FT)	265,000(EL)	1-19-73	64.89	46,310
SACRAMENTO RIVER AT BUTTE CITY (BEFORE SHASTA DAM)	--	1921-43	USGS-DWR	2- 7-42	96.9	170,000			

PEAK FLOWS AND STAGES (CONTINUED)

STREAM AND STATION	DRAINAGE AREA IN SQ MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR		
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS

CENTRAL VALLEY AREA (CONTINUED)

SACRAMENTO RIVER BASIN
(CONTINUED)

SACRAMENTO RIVER AT BUTTE CITY (AFTER SHASTA DAM)	--	1944-	USGS-DWR	2-20-58 1-24-70	90.7 --	160,000 225,000(L)	1-19-73	91.41	98,500
FULTON WEIR SPILL TO BUTTE BASIN	--	1935-	DWR	1-25-70 2- 7-42	83.6 81.3	30,400(B) --	1-13-73	80.34	11,390
CULUSA WEIR SPILL TO BUTTE BASIN	--	1935-	DWR	3- 1-40	70.6	86,000(B)	1-20-73	66.67	44,510
SACRAMENTO RIVER AT CULUSA	12110	1940-	USGS-DWR	2- 8-42	69.2	49,000	1-20-73	65.51	42,300
CULUSA BASIN DRAIN AT HIGHWAY 20	--	1924-	DWR	2-21-58	51.9	25,400(E)	2-10-73	51.47	7,490
BUTTE CREEK NEAR CHICO	147	1930-	USGS	12-22-64	14.1	21,200	1-16-73	7.72	6,760
BUTTE SLOUGH NEAR MERIDIAN	--	1908-	DWR	1-26-70	61.5(E)	152,000(E)	1-20-73	56.90	59,500
TISDALE WEIR SPILL TO SUTTER BYPASS	--	1940-	DWR	3- 1-40	53.3	25,700(B)	1-20-73	49.10	18,200
SACRAMENTO RIVER ELLOW WILKINS SLOUGH	12926	1938-	USGS	1-26-70 3- 1-40	50.7 52.8	29,300 --	1-20-73	48.65	28,300
SACRAMENTO RIVER AT KNIGHTS LANDING	14541	1921-39 1940-	USGS-DWR	1-26-70 2- 8-42	40.9 41.0(U)	30,800 --	1-20-73	38.61	29,500
MIDDLE FORK FEATHER RIVER NEAR CLIU	686	1925-	USGS	2- 1-63	16.2	14,500	1-16-73	10.32	3,440
MIDDLE FORK FEATHER RIVER NEAR MERRIMAC	1062	1951-	USGS	12-22-64	26.5(A)	86,200	1-16-73	12.92	12,000
NORTH FORK FEATHER RIVER NEAR PRATTVILLE	493	1905-	USGS	3-19-07	16.2(C)	10,000	2 -1-73	5.87	1,470(R)
BLIT CREEK BELOW ALMAADOR-BUTT CREEK TUNNEL NEAR PRATTVILLE	69	1930-59 1964-	USGS	12-23-64	5.9	3,830	5-15-73	2.10	520(R)
INDIAN CREEK NEAR CRESCENT MILLS	733	1906-18 1930-	USGS	3-19-07	20.2(C)	25,000	1-16-73	8.54	4,110
SPANISH CREEK ABOVE BLACKHAWK CREEK AT KEDDIE	184	1933-	USGS	12-22-64	13.5	15,400	1-16-73	9.04	6,610
NORTH FORK FEATHER RIVER AT PULGA	1953	1910-	USGS	12-22-64	35.8	73,000(H)	1-16-73	17.13	13,300
WEST BRANCH FEATHER RIVER NEAR PARADISE	110	1957-	USGS-DWR	12-22-64	26.2(A)	26,300	1-16-73	13.39	6,740
FEATHER RIVER AT OROVILLE (BEFORE OROVILLE DAM)	3624	1894-67	USGS-DWR NUAA	3-19-07 12-22-64	28.2 --	230,000(CP) 252,000(Q)			
FEATHER RIVER AT OROVILLE (AFTER OROVILLE DAM)	3624	1967-	USGS-DWR	1-25-70	15.3	56,300(N)	1-16-73	9.90	29,400(N)
THERMALITO AFTERBAY RELEASE TO FEATHER RIVER NEAR OROVILLE	--	1967-	USGS-DWR	1-28-70	23.3	21,660	1-16-73	8.95	18,900
FEATHER RIVER NEAR GRIDLEY (BEFORE OROVILLE DAM)	3676	1929-67	USGS-DWR	12-23-55	102.2(T)	--			
FEATHER RIVER NEAR GRIDLEY (AFTER OROVILLE DAM)	3676	1967-	USGS-DWR	1-27-70	92.8(T)	72,900	1-19-73	38.69	47,000
SOUTH HUNSCUT CREEK NEAR BANGOR	31	1950-	USGS	12-26-64	19.3	17,600	2-27-73	9.28	3,770

PEAK FLOWS AND STAGES (CONTINUED)

STREAM AND STATION	DRAINAGE AREA IN SQ. MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR		
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS
CENTRAL VALLEY AREA (CONTINUED)									
SACRAMENTO RIVER BASIN (CONTINUED)									
FEATHER RIVER AT YUBA CITY	3474	1943-	USGS-DWR	12-23-64 12-24-65	76.4 82.4	172,000 --	1-17-73	58.99	--(U)
SOUTH YUBA RIVER BELOW GOODFELLOW DAM	250	1930-	USGS	2-1-63	23.8(A)	40,000	1-16-73	9.74	5,540
NORTH YUBA RIVER BELOW NEW DOLLARD DAM DAM	490	1940-	USGS	1-22-70 12-22-64	35.3 40.5(C)	56,200 91,600(M)	2-27-73	4.69	40
SOUTH YUBA RIVER NEAR CISCO	52	1942-	USGS	1-31-63	20.6(A)	18,400	5-14-73	7.56	2,210
SOUTH YUBA RIVER AT JONES DAM NEAR GRASS VALLEY	308	1940-48 1959-	USGS	12-22-64	25.0(A)	53,600	1-12-73	12.30	7,500
YUBA RIVER BELOW INGLEFRIEIGHT DAM	1108	1941-	USGS	12-22-64	564.1(C)	171,000(K)	1-16-73	14.54	13,700
DEER CREEK NEAR SMARTVILLE	65	1935-	USGS	10-13-62	13.8	11,000	1-12-73	9.83	5,430
YUBA RIVER NEAR MARYSVILLE	1339	1940-	USGS	12-22-64	90.2	180,000	1-16-73	70.04	19,400
DEER RIVER NEAR WHEATLAND	292	1926-	USGS	12-22-55 11-21-50	19.3(C) 20.8(C)	33,000 --	1-12-73	16.45	16,600
FEATHER RIVER AT NICOLAUS	5920	1943-	USGS-DWR	12-23-55	51.6	357,000	1-19-73	43.36	86,400
FREMONT WEIR (WEST END) SPILL TO YUBA BYPASS	--	1934-	DWR	12-23-55	39.7	294,000(B)	1-19-73	36.54	99,100
SACRAMENTO RIVER AT VERONA	21257	1929-	USGS-DWR	3-1-40	41.2	79,200	1-19-73	36.45	65,400
SACRAMENTO WEIR SPILL TO YUBA BYPASS NEAR SACRAMENTO	--	1926-	USGS-DWR	3-26-28 12-23-55	32.8 33.0	116,000(B) --			NO FLOW
NORTH FORK AMERICAN RIVER AT NORTH FORK DAM	342	1941-	USGS	12-23-64	11.9	65,400	1-12-73	6.17	16,900
FULFON RIVER NEAR FORESTHILL	315	1958-	USGS	12-23-64	55.4(A)	--	1-12-73	17.01	5,760
MIDDLE FORK AMERICAN RIVER NEAR FORESTHILL	524	1958-	USGS	12-23-64	69.0(A)	310,000(I)	1-12-73	13.42	13,500
MIDDLE FORK AMERICAN RIVER NEAR AUBURN	614	1911-	USGS	12-23-64	60.4(A)	253,000(I)	1-12-73	18.31	16,700
SOUTH FORK AMERICAN RIVER NEAR CAMINO	493	1922-	USGS	12-23-55	32.6(A)	49,800	7-12-73	8.43	480(K)
SOUTH FORK AMERICAN RIVER NEAR LOTUS	673	1951-	USGS	12-23-55	21.4	71,800	1-12-73	13.00	19,400(R)
AMERICAN RIVER AT FAIR OAKS (BEFORE FULSUM DAM)	1888	1904-55	USGS	11-21-50	31.9(C)	180,000			
AMERICAN RIVER AT FAIR OAKS (AFTER FULSUM DAM)	1888	1955-	USGS	12-23-64	21.6	115,000	1-14-73	15.47	32,700
SACRAMENTO RIVER AT SACRAMENTO	23530	1879-	USGS-DWR NUAA	11-21-50	30.1(C)	104,000	1-19-73	26.74	73,400
SACRAMENTO RIVER AT WALNUT GROVE	--	1929-	DWR	12-25-64	12.2	--	1-19-73	11.32	--(U)
AUBURN CREEK NEAR KELSEYVILLE	6	1954-	USGS	12-22-64	9.1	1,500	1-16-73	6.35	1,260
KELSEY CREEK NEAR KELSEYVILLE	37	1946-	USGS	12-21-55	12.8	8,800	1-9-73	9.15	2,610
CACHE CREEK NEAR LOWER LAKE	526	1944-	USGS	2-24-58	9.4	8,000	2-20-73	7.96	5,030

PEAK FLOWS AND STAGES (CONTINUED)

STREAM AND STATION	DRAINAGE AREA IN SQ. MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR		
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS
CENTRAL VALLEY AREA (CONTINUED)									
SACRAMENTO RIVER BASIN (CONTINUED)									
NORTH FORK CACHE CREEK NEAR LOWER LAKE	177	1950-	USGS	12-11-37	14.0(A)	20,300	1-13-73	9.47	9,190
CACHE CREEK ABOVE RUMSEY	955	1960-	USGS-DWR	1- 5-65	21.4(A)	59,000	1-17-73	16.09	29,240
CACHE CREEK NEAR CAPAY	1044	1942-	USGS	2-24-58	20.9	51,000	2 -7-73	15.17	21,200
CACHE CREEK AT YULU	1137	1953-	USGS	2-25-56 1-10-54	25.4 28.4(P)	41,400 - -	1-16-73	74.17	21,100
YULU BYPASS NEAR WOODLAND	--	1959-	USGS-DWR	2- 8-42	32.0	272,000	1-19-73	28.24	112,000
DAY CREEK NEAR MIDDLETOWN	8	1959-72	USGS	2- 8-60	9.7	3,470	STATION DISCONTINUED		
POTAH CREEK NEAR WINTERS	574	1920-	USGS-DWR	2-27-40	30.5	81,000	3-21-73	9.12	1,140
YULU BYPASS NEAR LISBON	--	1914-	DWR	12-25-64	24.7	350,000(IE)	1-21-73	19.71	- -(U)
SACRAMENTO RIVER AT RIO VISTA	--	1936-	DWR	12-26-55	10.2	- -(U)	1-16-73	9.75	- -(U)
SAN JUAQUIN RIVER BASIN									
WILLOW CREEK AT MOUTH NEAR AUBERRY	130	1952-	USGS	12-23-55	28.5(A)	15,700	2-11-73	10.80	1,730
SAN JUAQUIN RIVER BELOW KLECHOFF POWERHOUSE NEAR PRATHER	1481	1942-	USGS-	12-23-55	51.0(A)	92,200	5-18-73	23.48	12,400(R)
SAN JUAQUIN RIVER FLOW FRONT	1676	1957-	USGS	12-11-37 6- 8-69	25.8(CM) 11.7	77,200(IM) 12,450	2-14-73	7.10	3,900(R)
SAN JUAQUIN RIVER NEAR MENDOTA	4310	1939-	USBR-DWP	6- 1-52 6-20-41	- - 13.6(C)	5,840 11,740(IM)	6-28-73	4.17	510(R)
FRESNO RIVER NEAR KIDWELLS	133	1911-13 1915-	USGS	12-23-55	11.5	13,300	2-11-73	6.52	3,720
FRESNO RIVER NEAR DOWNTOWN	155	1941-	USGS	12-23-55	12.6	17,500	2-11-73	10.60	11,200
CHOWCHILLA RIVER NEAR RAYMOND	202	1959-	USGS	2-24-69	20.0(5)	13,760	2-11-73	14.43	8,530
EASTSIDE BYPASS NEAR EL NIJO	--	1964-	DWR	2-25-69	17.6	21,700	2-12-73	14.60	5,240
SAN JUAQUIN RIVER AT FREMONT FORD BRIDGE	7615	1937-	DWR	2-26-69	69.1	9,180	2-15-73	65.77	4,450
MERCED RIVER AT PIONEER STAGE NEAR YOSEMITE	321	1946-	USGS	12-23-55	21.5(A)	25,400	5-31-73	10.32	6,620
SOUTH FORK MERCED RIVER NEAR EL PORTAL	241	1950-	USGS	12-23-55	18.7	46,500	5-19-73	9.80	3,740
MERCED RIVER NEAR PRIDEMOUC	671	1965-	USGS	12- 6-66	17.8	21,500	5-19-73	13.01	11,600
MERCED RIVER NEAR STEVENSON	1273	1940-	USGS	12- 5-50	75.8	13,600	2-12-73	67.04	4,510
SAN JUAQUIN RIVER NEAR NEWMAN	9520	1912-	USGS-DWR	2-26-69	65.9(A)	34,700(L)	2-15-73	62.15	11,200
DEL STIMBA CREEK NEAR NEWMAN	134	1932-	USGS	4- 2-58	6.6(C)	10,200	2-11-73	6.56	1,510
SOUTH FORK TUOLUMNE RIVER NEAR OAKLAND RECREATION CAMP	87	1923-	USGS	12-23-55	10.9(A)	11,900	1-16-73	6.35	1,750
MIDDLE TUOLUMNE RIVER AT OAKLAND RECREATION CAMP	74	1916-	USGS	12-23-55	11.8(A)	4,920	5-19-73	6.13	1,020
TUOLUMNE RIVER AT MUDSTON	1684	1940-	USGS-DWR	12- 9-50	69.2	57,000	2-12-73	49.55	6,440

PEAK FLOWS AND STAGES (CONTINUED)

STREAM AND STATION	DRAINAGE AREA IN SQ. MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR		
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS
CENTRAL VALLEY AREA (CONTINUED)									
SAN JOAQUIN RIVER BASIN (CONTINUED)									
SOUTH FORK STANISLAUS RIVER NEAR LONG BARN	67	1937-	USGS	11-21-53	7.3	4,900	3-17-73	5.86	1,373(R)
STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE	--	1924-39 1940-	DWR	12-23-55	21.8	62,000	3-21-73	9.90	4,390
STANISLAUS RIVER AT RIPON	1075	1940-	USGS-DWR	12-24-55 2-12-38	63.3 64.4(A)	62,300 --	6-2-73 0 0 0	59.71	4,180
SAN JOAQUIN RIVER NEAR VERNALIS	13540	1922-	USGS-DWR	12- 9-50 1-27-69	22.8(C) 34.6	79,000 52,600	2-16-73	21.63	13,100
BLACK CREEK NEAR STOCKTON	--	1950-	DWR	12-24-55	5.8	400	1-16-73	6.51	780*
SOUTH FORK CALAVERAS RIVER NEAR SAN ANDREAS	118	1950-	USGS	12-23-55	10.3	17,600	1-16-73	7.85	11,701
MORMON SLOUGH AT BELLOTA	--	1946-	DWR	4- 2-58	20.7	15,400(E)	2-14-73	10.37	5,730
STOCKTON DIVERTING CANAL AT STOCKTON	--	1944-	DWR	4- 4-56	17.1(E)	11,400(E)	2-12-73	11.62	5,110
CALAVERAS RIVER NEAR STOCKTON	--	1958-	DWR	1- 6-65	12.6	760(E)	2-11-73	7.32	330
BLACK CREEK NEAR LOCKEFORD	46	1930-	USGS	4- 3-56	15.1	2,930	1-16-73	14.15	840
BLACK CREEK NEAR SALT SPRINGS DAM	20	1927-42 1943-	USGS	12-23-64	10.2	6,140	5-12-73	5.01	980
SOUTH FORK MOKELUMNE RIVER NEAR WEST POINT	75	1933-	USGS	12-23-55	14.8(AC)	6,920	1-16-73	6.67	1,450
MOKELUMNE RIVER NEAR MOKELUMNE HILL	544	1901-	USGS	12- 3-50	18.5	33,700	5-30-73	8.15	6,420
MOKELUMNE RIVER AT WOODBRIDGE	661	1924-	USGS	11-22-50	27.6	27,000	2-16-73	14.77	2,700
MOKELUMNE RIVER NR THORNTON(BENSON FERRY)	2045	1911-	DWR-NOAA	12-24-55	15.0(C)	--(U)	1-17-73	11.97	--(U)
JOY CREEK NEAR GALT	329	1926-33 1944-	USGS-DWR	4- 3-58	15.3	24,000	2-12-73	14.03	3,500
NORTH FORK CUSUMNES RIVER NEAR EL DURAO	205	1911-41 1948-	USGS	12-23-55	14.6	15,800	1-12-73	7.32	5,050
SOUTH FORK CUSUMNES RIVER NEAR RIVER PINES	64	1957-	USGS	2- 1-63	10.9	5,540	1-12-73	5.94	2,080
CUSUMNES RIVER AT MICHIGAN DAM	536	1907-	USGS-DWR	12-23-55 3- 3-57	14.6 16.3(A)	42,000 --	1-16-73	9.39	15,000
CUSUMNES RIVER AT MCCONNELL	724	1941-	USGS	12-23-55	46.3	54,000	1-17-73	45.35	15,300
TULAKE LAKE BASIN									
TULE RIVER NEAR SPRINGVILLE	247	1957-	USGS	12- 6-66	19.7(AC)	49,600	1-18-73	8.72	6,410(L)
TULE RIVER BELOW SUCCESS DAM	393	1953-	USGS	12-23-55 11-19-50	21.7(C) 26.0(AC)	27,000 32,000(M)	4-14-73	7.16	1,080(R)
KAWIAH RIVER AT THREE RIVERS	415	1958-	USGS	12- 5-66 12- 5-66	16.7 19.0(A)	73,000 --	1-18-73	6.99	6,070
KINGS RIVER BELOW NORTH FORK	1342	1951-	USGS	12-23-55	23.1	85,200	6- 9-73	10.61	16,000(R)
BUENA VISTA LAKE BASIN									
KERN RIVER AT KERNVILLE	1009	1905-12 1953-	USGS	12- 6-66	19.3(A)	74,000	5-29-73	8.74	6,790

PEAK FLOWS AND STAGES (CONTINUED)

STREAM AND STATION	DRAINAGE AREA IN SQ MILES	PERIOD OF RECORD	SOURCE OF RECORD	PREVIOUS MAXIMUM OF RECORD			1972-1973 WATER YEAR		
				DATE	STAGE IN FEET	DISCHARGE IN CFS	DATE	STAGE IN FEET	DISCHARGE IN CFS
NORTHERN LAHUNTAN AREA									
HONEY LAKE BASIN									
WILLOW CREEK NEAR SUSANVILLE	97	1950-	USGS	2- 1-63	5.6	820	1-16-73	3.97	250
SUSAN RIVER AT SUSANVILLE	184	1917-21 1930-	USGS	12-22-64	7.3	3,100	1-16-73	4.50	700
PYRAMID AND WINHEMUCCA LAKES BASIN									
LITTLE TRUCKEE RIVER ABOVE ELICA RESERVOIR NEAR DOUGLA	146	1903-10 1939-	USGS	2- 1-63	9.0	13,300	4-25-73	4.10	530
TRUCKEE RIVER AT FARM	432	1899-	USGS	11-21-50	14.5 (AT)	17,500	5-16-73	4.97	2,500
CARSON RIVER BASIN									
EAST FORK CARSON RIVER BELOW HARKLEEVILLE CREEK	276	1960-	USGS	1-31-63	10.2	15,100	5-18-73	6.05	3,200
EAST FORK CARSON RIVER AT WOODFORDS	66	1907-07 1938-	USGS	2- 1-63	9.0	4,890	5-15-73	3.79	840
WALKER LAKE BASIN									
EAST WALKER RIVER BELOW LITTLE WALKER RIVER NEAR COLEVILLE	180	1938-	USGS	11-20-50	8.1	6,220	5-31-73	5.32	2,270
EAST WALKER RIVER NEAR BRIDGELPORT	359	1911-14 1921-	USGS	6-19-63	4.6	1,390	6 -4-73	3.22	650
SOUTHERN LAHUNTAN AREA									
MOJAVE RIVER BASIN									
MOJAVE RIVER AT LOWER GARRONS NEAR VICTORVILLE	514	1899-06 1930-	USGS	3- 2-38	23.7	70,600	2-11-73	5.20	1,600
MOJAVE RIVER AT BAKSTON	1290	1930-	USGS	3- 3-38	8.6	64,300	2-12-73	3.20	670
MOJAVE RIVER AT AFTON	2120	1929-32 1952-	USGS	1-26-69	10.4	18,000	2-15-73	3.75	60



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